



A Bright Choice

HEXALED



CONTRASTE

Contrast Lighting is synonymous with confidence. The Company offers a vast choice of recessed and pendant luminaires, decorative glass shades as well as wall mount fixtures. All products are manufactured in Québec and are of the highest quality. Contrast Lighting product excellence can be evidenced in its vertically integrated manufacturing and its many energy-efficient product innovations that allow the Company to make a major contribution towards the protection of the environment.



HEXALED

Always on the lookout to help you save energy while providing high quality lighting, Contrast combined advanced technology LED components to create a new and powerful unit that will meet every specification project needs.

HexaLED lets you design streamlined, elegant accent and general lighting concepts for architectural interiors that yield between 60 and 85 lumens per watt. These powerful, cost-efficient luminaires are suitable for a wide range of modern decors in retail stores, restaurants, lobbies, hotels, office spaces, conference rooms, museums and art galleries, public areas and other interiors.

Beyond its ability to deliver low-energy lighting, HexaLED is a beautiful addition to any space, combining 30° lockable adjustability, advanced LED technology, excellent color rendering, beam spread options and other desirable features.

With three wattage options (22W, 30W and 40W) and lumen outputs ranging from 1,700 to 3,100 lumens, HexaLED downlights exceed Energy Star® requirements and are ideally suited to best-in-class energy-efficient lighting designs and LEED® certified buildings. Fixtures come with two CRI options: over 80 and over 90 (3,000 K versions only). For added lighting flexibility, there is a choice of beam spreads, namely narrow spot (15°), medium (21°) and wide (46°) flood.

TRIM FINISHES



White -01



Black -02



Matte White -11



Metallic Grey -15





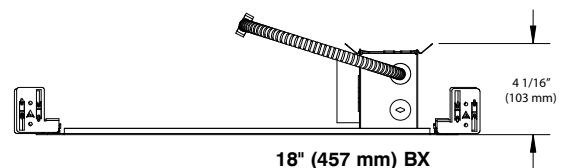
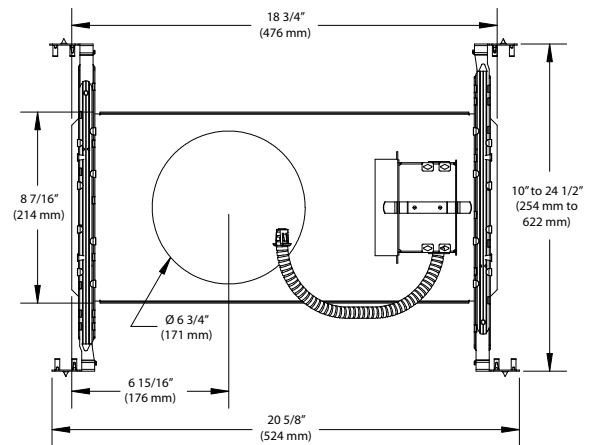
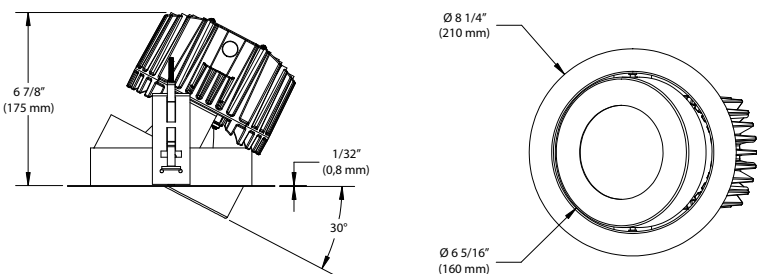
SPECIFICATIONS

FOR TRIM

COLOR TEMPERATURE	3,000 K, 3,500 K and 4,000 K		
LED MODULE	CREE CXA2530 LED providing binning freedom with single 4 step MacAdam ellipse color performance control which exceeds ANSI binning requirements		
LUMEN OUTPUT	1,700 lumens to 3,100 lumens 60 to 85 lumens/watt		
	22W	30W	40W
3,000 K	1,700 lms	2,220 lms	2,700 lms
3,500 K	1,850 lms	2,400 lms	2,900 lms
4,000 K	1,950 lms	2,550 lms	3,100 lms
CRI	80 + standard 90 + available with 3,000 K		
TRIM	Plated die-formed steel, with powder coating, marine grade option available. Adjustable center is lockable.		
BEAM	15°, 21° and 46°, adjustable and lockable		
LENS	Clear glass lens		
HEAT SINK	Very high quality injected and aluminum ensuring maximum heat dissipation		
LIFESPAN	L70@50,000 hours		
HOUSING	Can be used with 6" Contrast new construction housing ex.: NWHEXUxxx		
WARRANTY	5 year warranty on LED module and driver		

FOR HOUSING

HOUSING DETAILS	Galvanized steel Below-ceiling accessible.
MOUNTING	Ceiling cutout: 6 3/4" (171mm) Perfect fit into ceiling. No light leak. Fit into up to 7/8" (22 mm) ceiling thickness. Mounting bars lock into place and adjust from 10" (254 mm) to 24 1/2" (457 mm) on the integral T-Bars tabs. May be installed in trusses or suspended ceilings. 18" BX for easy installation and access to the trim.
DRIVER	Constant current output. Universal (110 to 277V c.a.) Optional LED Emergency Driver available.
WATTAGE	22W, 30W and 40W
DIMMING	3 compatible types of dimmers: ELV, 0-10V and Lutron Hi-Lume A-Series LED Driver with Eco System Control / 3-wire (CCR). Please see Web site for compatibility chart.
WARRANTY	5 year warranty on LED module and driver



ORDERING INFORMATION

Contrast Lighting products are available all over North America. Stock items can be delivered anywhere in Canada or in the U.S. within a few days.



How to Order

For information on distributors, local representatives or stores best able to serve your needs, please call our customer service at: 1 888 839-4624 or visit our Website at www.contrastlighting.com.

ORDERING CODE for Trim

Example: **HEXDL-01MG-3080S**

LED SERIES	TYPE	LENS	FINISHES	MARINE GRADE	COLOR TEMPERATURE	CRI	BEAM
HEX	D	L					
HEX	D Adjustable	L Lens	-01 White -02 Black -11 Matte White -15 Metallic Grey	... Standard MG Marine Grade	-30 3,000 K -35 3,500 K -40 4,000 K	80 80 + 90 90 + (Only for 3,000 K)	S Spot (15°) M Medium (21°) W Wide (46°)

MARINE GRADE - Unless otherwise indicated, trims are for interior use, cold and exterior locations where fixtures are not subjected to direct rain or snow exposure like under soffits. MARINE GRADE treatment is recommended.

ORDERING CODE for Housing

Example: **NWHEX1D1P1**

HOUSING TYPE	MODEL SERIES	VOLTAGE	DRIVER	POWER	LED EMERGENCY DRIVER (optional)
NW	HEX				
NW	HEX HexaLED	1 120V 2 277V	D1 ELV** D2 0-10V D3 Lutron Hi-Lume A-Series Eco System/ 3-wire (CCR)	P1 22W P2 30W P3 40W	-EM

** (Only for P1 and P2, not available on P3)



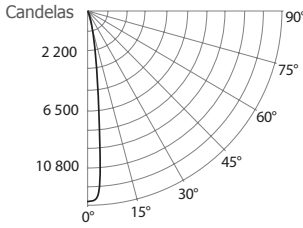
PHOTOMETRIC DATA

3,000 K POWER 1

For temperature 3,500 K,
add 7% to the photometric data
of the temperature 3,000 K.

3,000 K, Power 1, Spot Beam

CANDLEPOWER DISTRIBUTION



CONE OF LIGHT

Distance	FC	DIA
06'	435,0	1,6
08'	244,7	2,1
10'	156,6	2,7
12'	108,8	3,2
14'	79,9	3,7
16'	61,2	4,2
18'	48,3	4,8
20'	39,2	5,3

Beam: 15°
Beam Edge defined as 50%
of Maximum Nadir Candle-power.

LUMINAIRE

Power 1 HexaLED	3,000 K Spot Beam
Equivalent Bulbs	20W HID / 2X13W TTT
CBCP / Lumens	15,660 / 1,719
Watts	120V 277V 23,5W 23,5W
Operating AMPS	0,19A
Lumen Maintenance	L70 @ 50,000 Hrs
CRI	80 +
Lumens/Watt	73,1
Spacing Criteria	0,24
Certificate LM79-08	00025
Base on luminaire efficiency 85%	

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80	50	30				
Wall Reflect %	50	30	50	30			
RCR	0	119	119	111	111	106	106
	2	108	105	104	102	101	99
	4	100	97	97	95	96	93
	6	94	90	92	89	91	88
	8	89	85	88	85	87	84
	10	85	81	84	81	83	80

Zonal Cavity Method Effective Floor
Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	1,666	97%
0-40	1,704	99%
0-60	1,715	99%
60-90	5,3	0,3%
0-90	1,719	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	82	1,04
6'	46	0,59
7'	32	0,41
8'	32	0,41
9'	21	0,26

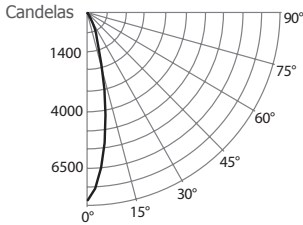
38' X 38' X 10' Room, Workplane 2 1/2" above floor,
80/50/20% Reflectances

CANDELA DISTRIBUTION

DEGREES VERTICAL	CANDELA	DEGREES VERTICAL	CANDELA
0	15,660	45	9
5	12,138	55	2
10	3,727	65	3
15	1,892	75	2
20	1,142	85	2
25	735	90	0
35	44		

3,000 K, Power 1, Medium Beam

CANDLEPOWER DISTRIBUTION



CONE OF LIGHT

Distance	FC	DIA
06'	220,3	2,3
08'	123,9	3,1
10'	79,3	3,9
12'	55,1	4,7
14'	40,5	5,4
16'	31,0	6,2
18'	24,5	7,0
20'	19,8	7,8

Beam: 22°
Beam Edge defined as 50%
of Maximum Nadir Candle-power.

LUMINAIRE

Power 1 HexaLED	3,000 K Medium Beam
Equivalent Bulbs	20W HID / 2X13W TTT
CBCP / Lumens	7,930 / 1,584
Watts	120V 277V 23,5W 23,5W
Operating AMPS	0,19A
Lumen Maintenance	L70 @ 50,000 Hrs
CRI	80 +
Lumens/Watt	67,4
Spacing Criteria	0,37
Certificate LM79-08	00026
Base on luminaire efficiency 85%	

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80	50	30				
Wall Reflect %	50	30	50	30			
RCR	0	119	119	111	111	106	106
	2	108	105	103	101	100	98
	4	99	95	96	93	94	91
	6	92	88	90	86	89	86
	8	86	82	85	81	84	81
	10	81	77	80	77	79	76

Zonal Cavity Method Effective Floor
Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	1,525	96,3%
0-40	1,570	99,1%
0-60	1,581	99,8%
60-90	2,7	0,2%
0-90	1,584	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	75	1,04
6'	42	0,59
7'	29	0,41
8'	29	0,41
9'	19	0,26

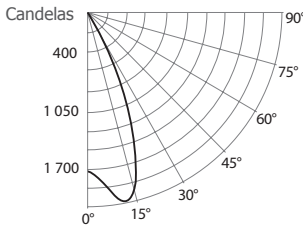
38' X 38' X 10' Room, Workplane 2 1/2" above floor,
80/50/20% Reflectances

CANDELA DISTRIBUTION

DEGREES VERTICAL	CANDELA	DEGREES VERTICAL	CANDELA
0	7,930	45	11
5	6,587	55	3
10	4,392	65	1
15	2,273	75	1
20	1,176	85	0
25	743	90	0
35	54		

3,000 K, Power 1, Wide Beam

CANDLEPOWER DISTRIBUTION



CONE OF LIGHT

Distance	FC	DIA
06'	82,4	5,1
08'	46,3	6,8
10'	29,7	8,5
12'	20,6	10,1
14'	15,1	11,8
16'	11,6	13,5
18'	9,2	15,2
20'	7,4	16,9

Beam: 46°
Beam Edge defined as 50%
of Maximum Nadir Candle-power.

LUMINAIRE

Power 1 HexaLED	3,000 K Wide Beam
Equivalent Bulbs	20W HID / 2X13W TTT
CBCP / Lumens	2,965 / 1,645
Watts	120V 277V 23,5W 23,5W
Operating AMPS	0,19A
Lumen Maintenance	L70 @ 50,000 Hrs
CRI	80 +
Lumens/Watt	70
Spacing Criteria	0,67
Certificate LM79-08	00027
Base on luminaire efficiency 85%	

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80	50	30				
Wall Reflect %	50	30	50	30			
RCR	0	119	119	111	111	106	106
	2	106	103	101	99	98	96
	4	96	91	92	89	91	88
	6	87	82	85	81	84	80
	8	80	75	78	74	77	74
	10	74	69	72	68	72	68

Zonal Cavity Method Effective Floor
Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	1,545	94%
0-40	1,622	98,6%
0-60	1,640	99,7%
60-90	4,3	0,3%
0-90	1,645	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	77	1,04
6'	43	0,59
7'	30	0,41
8'	30	0,41
9'	19	0,26

38' X 38' X 10' Room, Workplane 2 1/2" above floor,
80/50/20% Reflectances

CANDELA DISTRIBUTION

DEGREES VERTICAL	CANDELA	DEGREES VERTICAL	CANDELA
0	2,965	45	13
5	3,009	55	6
10	3,090	65	3
15	2,863	75	1
20	2,072	85	0
25	1,059	90	0
35	107		



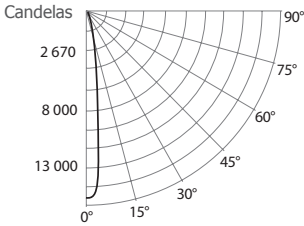
PHOTOMETRIC DATA

3,000 K POWER 2

For temperature 3,500 K,
add 7% to the photometric data
of the temperature 3,000 K.

3,000 K, Power 2, Spot Beam

CANDLEPOWER DISTRIBUTION



CONE OF LIGHT

Distance	FC	DIA
06'	561.7	1,6
08'	316.0	2,1
10'	202.2	2,6
12'	140.4	3,2
14'	103.2	3,7
16'	79.0	4,2
18'	62.4	4,8
20'	50.6	5,3

Beam: 15°
Beam Edge defined as 50%
of Maximum Nadir Candle-power.

LUMINAIRE

Power 2 HexaLED	3,000 K	Spot Beam
Equivalent Bulbs	39W HID / 2X18W TTT	
CBCP / Lumens	20,222 / 2,220	
Watts	120V	277V
	32,5W	32,5W
Operating AMPS	0,27A	
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	80 +	
Lumens/Watt	68,3	
Spacing Criteria	0,24	
Certificate LM79-08	00028	
Base on luminaire efficiency 85%		

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80	50	30				
Wall Reflect %	50	30	50	30	50	30	
RCR	0	119	119	111	111	106	106
	2	108	105	103	101	101	99
	4	100	97	97	94	96	93
	6	94	90	92	89	91	88
	8	89	85	88	84	87	84
	10	85	81	84	81	83	80

Zonal Cavity Method Effective Floor
Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	2,146	96,7%
0-40	2,197	99%
0-60	2,212	99,6%
60-90	7,8	0,4%
0-90	2,220	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	106	1,44
6'	60	0,81
7'	42	0,56
8'	42	0,56
9'	27	0,36

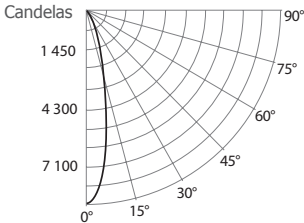
38' X 38' X 10' Room, Workplane 2 1/2" above floor,
80/50/20% Reflectances

CANDELA DISTRIBUTION

DEGREES VERTICAL	CANDELA	DEGREES VERTICAL	CANDELA
0	20,222	45	13
5	15,485	55	3
10	4,825	65	2
15	2,435	75	2
20	1,471	85	3
25	942	90	0
35	59		

3,000 K, Power 2, Medium Beam

CANDLEPOWER DISTRIBUTION



CONE OF LIGHT

Distance	FC	DIA
06'	282.6	2,4
08'	159.0	3,1
10'	101.7	3,9
12'	70.7	4,7
14'	51.9	5,5
16'	39.7	6,3
18'	31.4	7,1
20'	25.4	7,8

Beam: 22°
Beam Edge defined as 50%
of Maximum Nadir Candle-power.

LUMINAIRE

Power 2 HexaLED	3,000 K	Medium Beam
Equivalent Bulbs	39W HID / 2X18W TTT	
CBCP / Lumens	10,174 / 2,055	
Watts	120V	277V
	32,5W	32,5W
Operating AMPS	0,27A	
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	+ 80	
Lumens/Watt	63,1	
Spacing Criteria	0,37	
Certificate LM79-08	00029	
Base on luminaire efficiency 85%		

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80	50	30				
Wall Reflect %	50	30	50	30	50	30	
RCR	0	119	119	111	111	106	106
	2	107	104	103	100	100	98
	4	99	95	96	93	94	91
	6	92	87	90	86	88	85
	8	86	82	84	81	84	80
	10	81	77	80	76	79	76

Zonal Cavity Method Effective Floor
Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	1,973,7	96%
0-40	2,032,8	98,9%
0-60	2,049,1	99,7%
60-90	5,8	0,3%
0-90	2,055	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	98	1,44
6'	55	0,81
7'	38	0,56
8'	38	0,56
9'	24	0,36

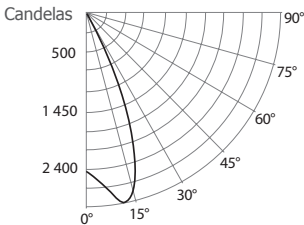
38' X 38' X 10' Room, Workplane 2 1/2" above floor,
80/50/20% Reflectances

CANDELA DISTRIBUTION

DEGREES VERTICAL	CANDELA	DEGREES VERTICAL	CANDELA
0	10,174	45	14
5	8,482	55	5
10	5,675	65	3
15	2,967	75	2
20	1,527	85	2
25	959	90	0
35	71		

3,000 K, Power 2, Wide Beam

CANDLEPOWER DISTRIBUTION



CONE OF LIGHT

Distance	FC	DIA
06'	105,6	5,1
08'	59,4	6,8
10'	38,0	8,5
12'	26,4	10,2
14'	19,4	11,8
16'	14,8	13,5
18'	11,7	15,2
20'	9,5	16,9

Beam: 46°
Beam Edge defined as 50%
of Maximum Nadir Candle-power.

LUMINAIRE

Power 2 HexaLED	3,000 K	Wide Beam
Equivalent Bulbs	39W HID / 2X18W TTT	
CBCP / Lumens	3,801 / 2,115	
Watts	120V	277V
	32,5W	32,5W
Operating AMPS	0,27A	
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	80 +	
Lumens/Watt	65,3	
Spacing Criteria	0,67	
Certificate LM79-08	00030	
Base on luminaire efficiency 85%		

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80	50	30				
Wall Reflect %	50	30	50	30	50	30	
RCR	0	119	119	111	111	106	106
	2	106	102	101	99	98	96
	4	95	91	92	89	90	87
	6	87	82	85	81	83	80
	8	80	75	78	74	77	74
	10	73	69	72	68	72	68

Zonal Cavity Method Effective Floor
Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	1,984	93,8%
0-40	2,083,8	98,5%
0-60	2,108	99,7%
60-90	7,2	0,3%
0-90	2,115	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	99	1,44
6'	56	0,81
7'	39	0,56
8'	39	0,56
9'	25	0,36

38' X 38' X 10' Room, Workplane 2 1/2" above floor,
80/50/20% Reflectances

CANDELA DISTRIBUTION

DEGREES VERTICAL	CANDELA	DEGREES VERTICAL	CANDELA
0	3,801	45	18
5	3,857	55	8
10	3,959	65	4
15	3,671	75	2
20	2,662	85	1
25	1,363	90	0
35	137		



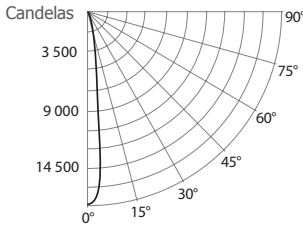
PHOTOMETRIC DATA

3,000 K POWER 3

For temperature 3,500 K,
add 7% to the photometric data
of the temperature 3,000 K.

3,000 K, Power 3, Spot Beam

CANDLEPOWER DISTRIBUTION



CONE OF LIGHT

Distance	FC	DIA
06'	680,1	1,6
08'	382,6	2,1
10'	244,8	2,6
12'	170,0	3,2
14'	124,9	3,7
16'	95,6	4,2
18'	75,6	4,8
20'	61,2	5,3

Beam: 15°
Beam Edge defined as 50%
of Maximum Nadir Candle-power.

LUMINAIRE

Power 3 HexaLED	3,000 K Spot Beam
Equivalent Bulbs	50W HID / 2 X 26W TTT
CBCP / Lumens	24,484 / 2,678
Watts	120V 277V 42,7W 42,7W
Operating AMPS	0,36A
Lumen Maintenance	L70 @ 50,000 Hrs
CRI	80 +
Lumens/Watt	63,1
Spacing Criteria	0,24
Certificate LM79-08	00031
Base on luminaire efficiency 85%	

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80			50			30		
Wall Reflect %	50	30	50	30	50	30	50	30	
RCR	0	119	119	111	111	106	106	106	
	2	108	105	104	101	101	99	99	
	4	100	97	97	95	96	93	93	
	6	94	90	92	89	91	88	88	
	8	89	85	88	85	87	84	84	
	10	85	81	84	81	83	80	80	

Zonal Cavity Method Effective Floor
Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	2,592,5	96,8%
0-40	2,653,2	99,1%
0-60	2,669,7	99,7%
60-90	7,8	0,3%
0-90	2,678	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	128	1,89
6'	72	1,06
7'	50	0,74
8'	50	0,74
9'	32	0,47

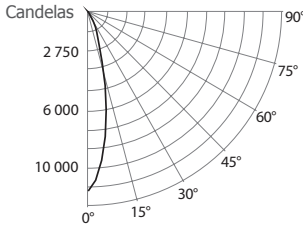
38' X 38' X 10' Room, Workplane 2 1/2" above floor,
80/50/20% Relectances

CANDELA DISTRIBUTION

DEGREES VERTICAL	CANDELA	DEGREES VERTICAL	CANDELA
0	24,484	45	16
5	18,833	55	5
10	5,807	65	2
15	2,941	75	2
20	1,778	85	2
25	1,143	90	0
35	70		

3,000 K, Power 3, Medium Beam

CANDLEPOWER DISTRIBUTION



CONE OF LIGHT

Distance	FC	DIA
06'	336,2	2,3
08'	189,1	3,1
10'	121,0	3,9
12'	84,0	4,7
14'	61,8	5,5
16'	47,3	6,3
18'	37,4	7,0
20'	30,3	7,8

Beam: 22°
Beam Edge defined as 50%
of Maximum Nadir Candle-power.

LUMINAIRE

Power 3 HexaLED	3,000 K Medium Beam
Equivalent Bulbs	50W HID / 2 X 26W TTT
CBCP / Lumens	12,103 / 2,468
Watts	120V 277V 42,7W 42,7W
Operating AMPS	0,36A
Lumen Maintenance	L70 @ 50,000 Hrs
CRI	80 +
Lumens/Watt	58,2
Spacing Criteria	0,37
Certificate LM79-08	00032
Base on luminaire efficiency 85%	

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80			50			30		
Wall Reflect %	50	30	50	30	50	30	50	30	
RCR	0	119	119	111	111	106	106	106	
	2	107	104	102	100	99	98	98	
	4	98	94	95	92	93	91	91	
	6	91	87	89	86	88	85	85	
	8	85	81	84	80	83	80	80	
	10	80	76	79	76	79	75	75	

Zonal Cavity Method Effective Floor
Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	2,344,3	95%
0-40	2,416,7	97,9%
0-60	2,445,2	99,1%
60-90	22,6	0,9%
0-90	2,468	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	117	1,89
6'	66	1,06
7'	46	0,74
8'	46	0,74
9'	29	0,47

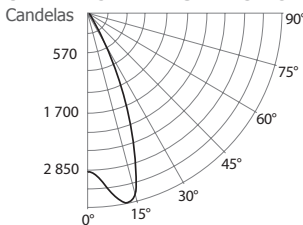
38' X 38' X 10' Room, Workplane 2 1/2" above floor,
80/50/20% Relectances

CANDELA DISTRIBUTION

DEGREES VERTICAL	CANDELA	DEGREES VERTICAL	CANDELA
0	12,103	45	22
5	10,088	55	11
10	6,749	65	9
15	3,502	75	7
20	1,811	85	6
25	1,145	90	0
35	90		

3,000 K, Power 3, Wide Beam

CANDLEPOWER DISTRIBUTION



CONE OF LIGHT

Distance	FC	DIA
06'	128,4	5,1
08'	72,2	6,8
10'	46,2	8,5
12'	32,1	10,2
14'	23,6	11,9
16'	18,1	13,5
18'	14,3	15,2
20'	11,6	16,9

Beam: 46°
Beam Edge defined as 50%
of Maximum Nadir Candle-power.

LUMINAIRE

Power 3 HexaLED	3,000 K Wide Beam
Equivalent Bulbs	50W HID / 2 X 26W TTT
CBCP / Lumens	4,621 / 2,573
Watts	120V 277V 42,7W 42,7W
Operating AMPS	0,36A
Lumen Maintenance	L70 @ 50,000 Hrs
CRI	80 +
Lumens/Watt	60,2
Spacing Criteria	0,67
Certificate LM79-08	00033
Base on luminaire efficiency 85%	

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80			50			30		
Wall Reflect %	50	30	50	30	50	30	50	30	
RCR	0	119	119	111	111	106	106	106	
	2	106	103	101	99	98	96	96	
	4	96	91	92	89	90	87	87	
	6	87	82	85	81	84	80	80	
	8	80	75	78	74	77	74	74	
	10	74	69	72	68	72	68	68	

Zonal Cavity Method Effective Floor
Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	2,414,8	93,9%
0-40	2,536,1	98,6%
0-60	2,564,9	99,7%
60-90	7,6	0,3%
0-90	2,573	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	120	1,89
6'	68	1,06
7'	47	0,74
8'	47	0,74
9'	30	0,47

38' X 38' X 10' Room, Workplane 2 1/2" above floor,
80/50/20% Relectances

CANDELA DISTRIBUTION

DEGREES VERTICAL	CANDELA	DEGREES VERTICAL	CANDELA
0	4,621	45	21
5	4,694	55	10
10	4,817	65	5
15	4,471	75	2
20	3,238	85	0
25	1,661	90	0
35	167		

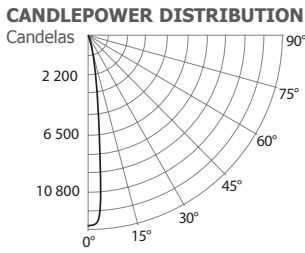


PHOTOMETRIC DATA

4,000 K POWER 1

For temperature 3,500 K,
add 7% to the photometric data
of the temperature 3,000 K.

4,000 K, Power 1, Spot Beam



CONE OF LIGHT

Distance	FC	DIA
06'	477.3	1.4'
08'	268.5	1.9'
10'	171.8	2.4'
12'	119.3	2.9'
14'	87.7	3.4'
16'	67.1	3.8'
18'	53.0	4.3'
20'	43.0	4.8'

Beam: 14°
Beam Edge defined as 50%
of Maximum Nadir Candle-power.

LUMINAIRE

Power 1 HexaLED	4,000 K Spot Beam
Equivalent Bulbs	39W HID / 2 X 18W DTT
CBCP / Lumens	17,181 / 1,941
Watts	120V 277V 23,5W 23,5W
Operating AMPS	0.19A
Lumen Maintenance	L70 @ 50,000 Hrs
CRI	80 +
Lumens/Watt	85
Spacing Criteria	0,2
Certificate LM79-08	229988

Base on luminaire efficiency 85%

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80	50	30
Wall Reflect %	50 30 50 30 50 30		
RCR	0 119 119 111 111 106 106		
	2 110 108 105 103 102 101		
	4 104 101 101 99 99 97		
	6 99 96 97 95 96 94		
	8 95 92 94 91 93 91		
	10 91 89 91 88 90 88		

**Zonal Cavity Method Effective Floor
Cavity Reflectance 20%**

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	1,869,6	96,3%
0-40	1,918,3	98,8%
0-60	1,933,7	99,6%
60-90	8,0	0,4%
0-90	1,941	100%

MULTIPLE UNIT DATA - (RCR 2)

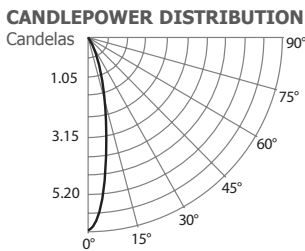
SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	93	1,04
6'	52	0,58
7'	36	0,41
8'	36	0,41
9'	23	0,26

38' X 38' X 10' Room, Workplane 2 1/2" above floor,
80/50/20% Reflectances

CANDELA DISTRIBUTION

DEGREES VERTICAL	CANDELA	DEGREES VERTICAL	CANDELA
0	17,180	45	13
5	12,890	55	5
10	4,294	65	4
15	2,200	75	2
20	1,316	85	2
25	809	90	0
35	56		

4,000 K, Power 1, Medium Beam



CONE OF LIGHT

Distance	FC	DIA
06'	260,5	2,2'
08'	146,5	2,9'
10'	93,8	3,6'
12'	65,1	4,3'
14'	47,9	5,0'
16'	36,6	5,7'
18'	28,9	6,5'
20'	23,4	7,2'

Beam: 20°
Beam Edge defined as 50%
of Maximum Nadir Candle-power.

LUMINAIRE

Power 1 HexaLED	4,000 K Medium Beam
Equivalent Bulbs	39W HID / 2 X 18W DTT
CBCP / Lumens	9,379 / 1,855
Watts	120V 277V 23,5W 23,5W
Operating AMPS	0,19A
Lumen Maintenance	L70 @ 50,000 Hrs
CRI	80 +
Lumens/Watt	81
Spacing Criteria	0,4
Certificate LM79-08	229995

Base on luminaire efficiency 85%

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80	50	30
Wall Reflect %	50 30 50 30 50 30		
RCR	0 119 119 111 111 106 106		
	2 110 107 105 103 102 101		
	4 103 100 101 98 99 97		
	6 98 95 96 94 95 93		
	8 94 91 92 90 92 89		
	10 90 87 89 86 88 86		

**Zonal Cavity Method Effective Floor
Cavity Reflectance 20%**

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	1,788,0	95,9%
0-40	1,840,5	98,4%
0-60	1,853,1	99,3%
60-90	1,9	0,7%
0-90	1,855	100%

MULTIPLE UNIT DATA - (RCR 2)

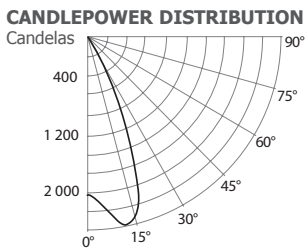
SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	88	1,04
6'	50	0,58
7'	34	0,41
8'	34	0,41
9'	22	0,26

38' X 38' X 10' Room, Workplane 2 1/2" above floor,
80/50/20% Reflectances

CANDELA DISTRIBUTION

DEGREES VERTICAL	CANDELA	DEGREES VERTICAL	CANDELA
0	9,379	45	12
5	7,783	55	3
10	5,147	65	1
15	2,672	75	0
20	1,375	85	0
25	861	90	0
35	63		

4,000 K, Power 1, Wide Beam



CONE OF LIGHT

Distance	FC	DIA
06'	92,7	5,1'
08'	52,2	6,8'
10'	33,4	8,5'
12'	23,2	10,1'
14'	17,0	11,8'
16'	13,0	13,5'
18'	10,3	15,2'
20'	8,3	16,9'

Beam: 46°
Beam Edge defined as 50%
of Maximum Nadir Candle-power.

LUMINAIRE

Power 1 HexaLED	4,000 K Wide Beam
Equivalent Bulbs	26W TTT
CBCP / Lumens	3,338 / 1,822
Watts	120V 277V 23,5W 23,5W
Operating AMPS	0,19A
Lumen Maintenance	L70 @ 50,000 Hrs
CRI	80 +
Lumens/Watt	79
Spacing Criteria	0,7
Certificate LM79-08	230001

Base on luminaire efficiency 85%

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80	50	30
Wall Reflect %	50 30 50 30 50 30		
RCR	0 119 119 111 111 106 106		
	2 109 106 104 102 101 100		
	4 101 98 98 96 96 94		
	6 95 91 93 90 92 89		
	8 89 85 88 85 87 84		
	10 84 81 83 80 83 80		

**Zonal Cavity Method Effective Floor
Cavity Reflectance 20%**

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	1,706,1	93,8%
0-40	1,795,8	98,1%
0-60	1,817,0	99,3%
60-90	6,3	0,7%
0-90	1,823,3	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	85	1,03
6'	48	0,58
7'	33	0,4
8'	33	0,4
9'	21	0,26

38' X 38' X 10' Room, Workplane 2 1/2" above floor,
80/50/20% Reflectances

CANDELA DISTRIBUTION

DEGREES VERTICAL	CANDELA	DEGREES VERTICAL	CANDELA
0	3,338	45	16
5	3,355	55	7
10	3,395	65	3
15	3,095	75	2
20	2,274	85	1
25	1,210	90	0
35	122		



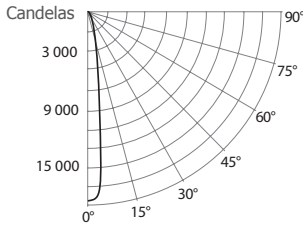
PHOTOMETRIC DATA

4,000 K POWER 2

For temperature 3,500 K,
add 7% to the photometric data
of the temperature 3,000 K.

4,000 K, Power 2, Spot Beam

CANDLEPOWER DISTRIBUTION



CONE OF LIGHT

Distance	FC	DIA
06'	626,7	1,4'
08'	352,5	1,9'
10'	225,6	2,4'
12'	156,7	2,9'
14'	115,1	3,4'
16'	88,1	3,8'
18'	69,6	4,3'
20'	56,4	4,8'

Beam: 14°
Beam Edge defined as 50%
of Maximum Nadir Candle-power.

LUMINAIRE

Power 2 HexaLED 4,000 K Spot Beam

Equivalent Bulbs	50W HID / 2 X 26W TTT
CBCP / Lumens	22,560 / 2,564
Watts	120V 277V 32,5W 32,5W
Operating AMPS	0,27A
Lumen Maintenance	L70 @ 50,000 Hrs
CRI	80 +
Lumens/Watt	81
Spacing Criteria	0,2
Certificate LM79-08	229990

Base on luminaire efficiency 85%

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80	50	30				
Wall Reflect %	50	30	50	30			
RCR	0	119	119	111	111	106	106
	2	110	107	105	103	102	101
	4	104	101	101	98	99	97
	6	99	96	97	95	96	94
	8	95	92	93	91	93	90
	10	91	88	90	88	90	87

Zonal Cavity Method Effective Floor
Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	2,459,6	95,9%
0-40	2,524,7	98,5%
0-60	2,548,7	99,4%
60-90	15,5	0,6%
0-90	2,564	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	122	1,46
6'	69	0,82
7'	48	0,57
8'	48	0,57
9'	31	0,37

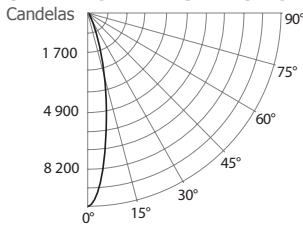
38' X 38' X 10' Room, Workplane 2 1/2" above floor,
80/50/20% Reflectances

CANDELA DISTRIBUTION

DEGREES VERTICAL	CANDELA	DEGREES VERTICAL	CANDELA
0	22,560	45	19
5	17,011	55	8
10	5,648	65	6
15	2,887	75	5
20	1,728	85	3
25	1,066	90	0
35	75		

4,000 K, Power 2, Medium Beam

CANDLEPOWER DISTRIBUTION



CONE OF LIGHT

Distance	FC	DIA
06'	344,3	2,3'
08'	193,6	3,1'
10'	123,9	3,8'
12'	86,1	4,6'
14'	63,2	5,4'
16'	48,4	6,1'
18'	38,3	6,9'
20'	31,0	7,7'

Beam: 22°
Beam Edge defined as 50%
of Maximum Nadir Candle-power.

LUMINAIRE

Power 2 HexaLED 4,000 K Medium Beam

Equivalent Bulbs	50W HID / 2 X 26W TTT
CBCP / Lumens	12,393 / 2,439
Watts	120V 277V 32,5W 32,5W
Operating AMPS	0,27A
Lumen Maintenance	L70 @ 50,000 Hrs
CRI	80 +
Lumens/Watt	76
Spacing Criteria	0,4
Certificate LM79-08	229997

Base on luminaire efficiency 85%

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80	50	30				
Wall Reflect %	50	30	50	30			
RCR	0	119	119	111	111	106	106
	2	110	107	105	103	102	101
	4	103	100	101	98	99	97
	6	98	95	96	94	95	93
	8	94	91	92	90	92	89
	10	90	87	89	86	88	86

Zonal Cavity Method Effective Floor
Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	2,351,7	96,4%
0-40	2,420,2	99,2%
0-60	2,436,1	99,9%
60-90	3,0	0,1%
0-90	2,439	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	116	1,47
6'	65	0,83
7'	45	0,57
8'	45	0,57
9'	29	0,37

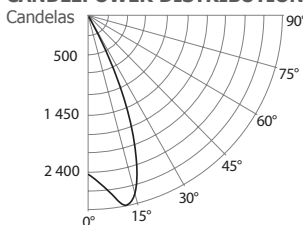
38' X 38' X 10' Room, Workplane 2 1/2" above floor,
80/50/20% Reflectances

CANDELA DISTRIBUTION

DEGREES VERTICAL	CANDELA	DEGREES VERTICAL	CANDELA
0	12,393	45	16
5	10,263	55	4
10	6,762	65	2
15	3,492	75	1
20	1,804	85	0
25	1,141	90	0
35	83		

4,000 K, Power 2, Wide Beam

CANDLEPOWER DISTRIBUTION



CONE OF LIGHT

Distance	FC	DIA
06'	121,6	5,1'
08'	68,4	6,8'
10'	43,8	8,5'
12'	30,4	10,1'
14'	22,3	11,8'
16'	17,1	13,5'
18'	13,5	15,2'
20'	10,9	16,9'

Beam: 46°
Beam Edge defined as 50%
of Maximum Nadir Candle-power.

LUMINAIRE

Power 2 HexaLED 4,000 K Wide Beam

Equivalent Bulbs	50W HID / 2 X 26W TTT
CBCP / Lumens	4,379 / 2,389
Watts	120V 277V 32,5W 32,5W
Operating AMPS	0,27A
Lumen Maintenance	L70 @ 50,000 Hrs
CRI	80 +
Lumens/Watt	75
Spacing Criteria	0,7
Certificate LM79-08	230003

Base on luminaire efficiency 85%

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80	50	30				
Wall Reflect %	50	30	50	30			
RCR	0	119	119	111	111	106	106
	2	109	106	104	102	101	100
	4	101	98	98	96	96	94
	6	95	91	93	90	92	89
	8	89	85	88	85	87	84
	10	84	81	83	80	83	80

Zonal Cavity Method Effective Floor
Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	2,238,3	93,7%
0-40	2,355,9	98,6%
0-60	2,382,9	99,7%
60-90	6,8	0,3%
0-90	2,389	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	112	1,44
6'	63	0,81
7'	44	0,56
8'	44	0,56
9'	28	0,36

38' X 38' X 10' Room, Workplane 2 1/2" above floor,
80/50/20% Reflectances

CANDELA DISTRIBUTION

DEGREES VERTICAL	CANDELA	DEGREES VERTICAL	CANDELA
0	4,379	45	20
5	4,399	55	8
10	4,449	65	4
15	4,060	75	2
20	2,986	85	1
25	1,587	90	0
35	159		

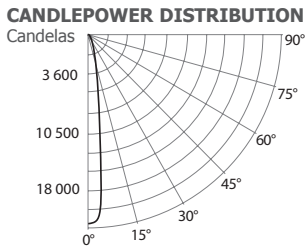


PHOTOMETRIC DATA

4,000 K POWER 3

For temperature 3,500 K,
add 7% to the photometric data
of the temperature 3,000 K.

4,000 K, Power 3, Spot Beam



Distance	FC	DIA
06'	756,7	1,4'
08'	425,7	1,9'
10'	272,4	2,4'
12'	189,2	2,9'
14'	139,0	3,4'
16'	106,4	3,8'
18'	84,1	4,3'
20'	68,1	4,8'

Beam: 14°
Beam Edge defined as 50%
of Maximum Nadir Candle-power.

LUMINAIRE

Power 3 HexaLED	4,000 K Spot Beam
Equivalent Bulbs	70W HID / 2 X 32W TTT
CBCP / Lumens	27,242 / 3,087
Watts	120V 277V 42,25W 42,25W
Operating AMPS	0,35A
Lumen Maintenance	L70 @ 50,000 Hrs
CRI	80 +
Lumens/Watt	73
Spacing Criteria	0,2
Certificate LM79-08	229993

Base on luminaire efficiency 85%

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80	50	30
Wall Reflect %	50	30	50 30
RCR	0	119 119 111 111	106 106 106 106
	2	110 107 105 103	102 101 102 101
	4	104 101 101 99	99 97 99 97
	6	99 96 97 95	96 94 96 94
	8	95 92 94 91	93 90 93 90
	10	91 89 90 88	90 88 90 88

Zonal Cavity Method Effective Floor
Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	2,970,4	96,2%
0-40	3,048,9	98,7%
0-60	3,074,7	99,6%
60-90	12,8	0,4%
0-90	3,087	100%

MULTIPLE UNIT DATA - (RCR 2)

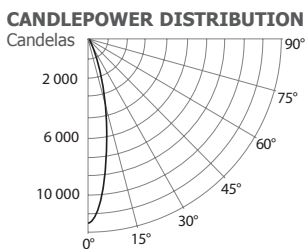
SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	148	1,9
6'	83	1,07
7'	58	0,74
8'	58	0,74
9'	37	0,47

38' X 38' X 10' Room, Workplane 2 1/2" above floor,
80/50/20% Reflectances

CANDELA DISTRIBUTION

DEGREES VERTICAL	CANDELA	DEGREES VERTICAL	CANDELA
0	27,242	45	23
5	20,542	55	7
10	6,825	65	5
15	3,487	75	4
20	2,086	85	3
25	1,281	90	0
35	89		

4,000 K, Power 3, Medium Beam



Distance	FC	DIA
06'	414,7	2,3'
08'	233,3	3,1'
10'	149,3	3,8'
12'	103,7	4,6'
14'	76,2	5,4'
16'	58,3	6,1'
18'	46,1	6,9'
20'	37,3	7,7'

Beam: 22°
Beam Edge defined as 50%
of Maximum Nadir Candle-power.

LUMINAIRE

Power 3 HexaLED	4,000 K Medium Beam
Equivalent Bulbs	70W HID / 2 X 32W TTT
CBCP / Lumens	14,930 / 2,949
Watts	120V 277V 42,25W 42,25W
Operating AMPS	0,35A
Lumen Maintenance	L70 @ 50,000 Hrs
CRI	80 +
Lumens/Watt	69
Spacing Criteria	0,4
Certificate LM79-08	229999

Base on luminaire efficiency 85%

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80	50	30
Wall Reflect %	50	30	50 30
RCR	0	119 119 111 111	106 106 106 106
	2	110 107 105 103	102 101 102 101
	4	103 100 100 98	99 97 99 97
	6	98 95 96 94	95 93 95 93
	8	94 90 92 89	92 89 92 89
	10	90 87 89 86	88 86 88 86

Zonal Cavity Method Effective Floor
Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	2,835,1	96,1%
0-40	2,917,0	98,9%
0-60	2,940,5	99,7%
60-90	9,1	0,3%
0-90	2,949	100%

MULTIPLE UNIT DATA - (RCR 2)

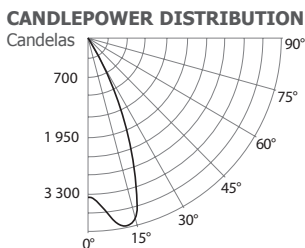
SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	140	1,9
6'	79	1,07
7'	55	0,74
8'	55	0,74
9'	35	0,47

38' X 38' X 10' Room, Workplane 2 1/2" above floor,
80/50/20% Reflectances

CANDELA DISTRIBUTION

DEGREES VERTICAL	CANDELA	DEGREES VERTICAL	CANDELA
0	14,930	45	14
5	12,384	55	10
10	8,158	65	7
15	4,210	75	6
20	2,172	85	5
25	1,374	90	4
35	100		

4,000 K, Power 3, Wide Beam



Distance	FC	DIA
06'	146,8	5,1'
08'	82,6	6,8'
10'	52,8	8,5'
12'	36,7	10,2'
14'	27,0	11,9'
16'	20,6	13,5'
18'	16,3	15,2'
20'	13,2	16,9'

Beam: 46°
Beam Edge defined as 50%
of Maximum Nadir Candle-power.

LUMINAIRE

Power 3 HexaLED	4,000 K Wide Beam
Equivalent Bulbs	70W HID / 2 X 32W TTT
CBCP / Lumens	5,284 / 2,886
Watts	120V 277V 42,25W 42,25W
Operating AMPS	0,35A
Lumen Maintenance	L70 @ 50,000 Hrs
CRI	80 +
Lumens/Watt	68
Spacing Criteria	0,7
Certificate LM79-08	229933

Base on luminaire efficiency 85%

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80	50	30
Wall Reflect %	50	30	50 30
RCR	0	119 119 111 111	106 106 106 106
	2	109 106 104 102	101 100 101 100
	4	101 98 98 96	96 94 96 94
	6	95 91 93 90	92 89 92 89
	8	89 86 88 85	87 84 87 84
	10	84 81 83 80	83 80 83 80

Zonal Cavity Method Effective Floor
Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	2,706,3	93,8%
0-40	2,846,2	98,1%
0-60	2,879,0	99,3%
60-90	8,9	0,7%
0-90	2,887	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	135	1,89
6'	76	1,06
7'	53	0,74
8'	53	0,74
9'	34	0,47

38' X 38' X 10' Room, Workplane 2 1/2" above floor,
80/50/20% Reflectances

CANDELA DISTRIBUTION

DEGREES VERTICAL	CANDELA	DEGREES VERTICAL	CANDELA
0	5,284	45	24
5	5,316	55	10
10	5,386	65	5
15	4,915	75	2
20	3,611	85	1
25	1,916	90	0
35	193		





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