

# UR4J

## 4" Series Square Downlight Regressed Trim with Square Opening



Project \_\_\_\_\_

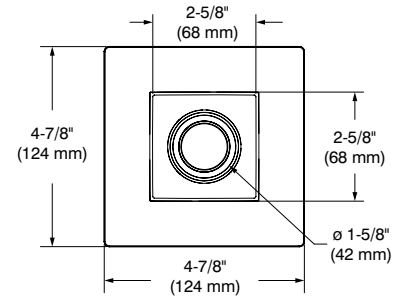
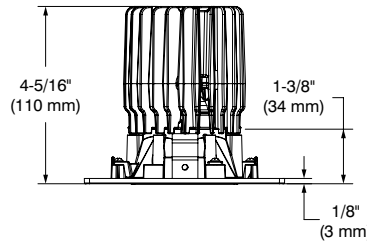
Notes \_\_\_\_\_

Fixture Type \_\_\_\_\_

Date \_\_\_\_\_



UR4J-04BRAN (illustrated)



### SPECIFICATIONS

#### LED MODULE

##### SOLID COLORS

Lumileds Luxeon CoB  
 2,700K - CRI: 80+ and 90+  
 3,000K - CRI: 80+ and 90+  
 3,500K - CRI: 90+  
 4,000K - CRI: 90+  
 Lumens Maintenance:  
 L<sub>70</sub> @ 50,000 hours  
 Binning: 3 SDCM

#### LED MODULE (CONT'D)

##### WARM DIMMING (WD)

LED module mimicking the halogen lamp dimming conditions by lowering color temperature from 3,050K at full intensity down to 1,800K at low-end while ensuring 90+ CRI throughout the whole process.  
 Lumens Maintenance:  
 L<sub>70</sub> @ 50,000 hours  
 Binning: 3 SDCM

#### DELIVERED LUMENS

**Performance 1 (10W):**  
**872 lumens @ 3,000K, 87.2 lms/W**  
**Performance 2 (15W):**  
**1,136 lumens @ 3,000K, 75.7 lms/W**  
**Warm Dimming (15W):**  
**556 lumens @ 3,000K, 37 lms/W**

#### OPTIC SYSTEM\*

Optical reflectors available:  
 Spot, Narrow Flood, Flood

	Standard
Spot (S)	16°
Narrow Flood (M)	32°
Flood (L)	48°

\* Average beams shown. Consult .ies files on our Website for more details.

#### LENS

Without lens (std)  
 Clear (C), Frosted (F)  
 Honeycombs (H), Linear (L)  
 Prismatic (P), Solite (S)

#### POWER SUPPLY

**(Determined by the choice of housing)**  
 120V - 277V  
 Several driver models available in two performances (10W and 15W) and in two dimming options (ELV and 0-10V).  
 See housing specification sheets for more details.

#### HEAT SINK

High quality aluminum injected heat sink ensuring maximum heat dissipation.

#### TRIM

Powder coat painted or plated aluminum injected.

#### PAINTED REFLECTORS

Natural Anodized (AN)  
 Matte White (11)  
 Matte Black (22)

#### CEILING CUTOUT

ø 4-1/4" (108 mm)

# UR4J

## 4" Series Square Downlight Regressed Trim with Square Opening



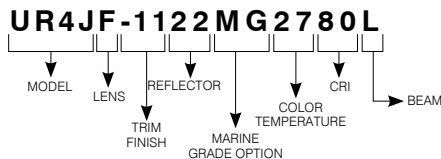
### SPECIFICATIONS (CONT'D)

#### COMPATIBLE HOUSINGS

	Remodel Housings	New Construction Housings	IC Housings
<b>Performance 1</b> 10W Warm Dimming not compatible	<b>IC and Air Tight</b> REUR4-120D1 REUR4-120E1 REUR4-277D1	<b>IC and Air Tight</b> NWUR4-120D1 NWUR4-120E1 NWUR4-277D1 <b>Emergency Driver Non-IC and Air Tight</b> NWUR4-120D1-EM NWUR4-120E1-EM NWUR4-277D1-EM	<b>Air Tight</b> ISUR4-120D1 ISUR4-120E1 ISUR4-277D1 <b>Chicago Plenum and Polyurethane Air Tight</b> ISUR4-120D1P ISUR4-120E1P ISUR4-277D1P
<b>Performance 2</b> 15W MAX	<b>Non-IC and Air Tight</b> REUR4-120D2 REUR4-120E2 REUR4-120EB2 REUR4-2772 REUR4-277D2	<b>Non-IC and Air Tight</b> NWUR4-120D2 NWUR4-120E2 NWUR4-120EB2 NWUR4-2772 NWUR4-277D2 <b>Emergency Driver Non-IC and Air Tight</b> NWUR4-120D2-EM NWUR4-120E2-EM NWUR4-120EB2-EM NWUR4-2772-EM NWUR4-277D2-EM	<b>Air Tight</b> ISUR4-120D2 ISUR4-120E2 ISUR4-120EB2 ISUR4-2772 ISUR4-277D2 <b>Chicago Plenum Air Tight</b> ISUR4-120D2P ISUR4-120E2P ISUR4-120EB2P ISUR4-2772P ISUR4-277D2P

For dimming, please visit our Web site frequently to find our suggested compatible dimmers list:  
[www.contrastlighting.com](http://www.contrastlighting.com)

#### CODIFICATION EXAMPLE



#### ORDERING CODE

MODEL	LENS	TRIM FINISHES	REFLECTORS	MARINE GRADE	COLOR TEMPERATURES	CRI	BEAMS
<b>UR4J</b>							
UR4J	Without lens (std)	<b>-03SA</b> Satin Gold	<b>PAINTED</b>	<b>MG (optional)</b>	<b>27</b> 2,700K (80+ and 90+ CRI)	<b>80</b> 80+	<b>S</b> Spot (16°)
<b>C</b>	Clear	<b>-04BR</b> Brushed Chrome	<b>AN</b> Natural Anodized	May be applied on finishes: -11 and -22	<b>30</b> 3,000K (80+ and 90+ CRI)	<b>90</b> 90+	<b>M</b> Narrow Flood (32°)
<b>F</b>	Frosted	<b>-11</b> Matte White	<b>11</b> Matte White		<b>35</b> 3,500K (90+ CRI)		<b>L</b> Flood (48°)
<b>H</b>	Honeycomb	<b>-12BR</b> Brushed Nickel	<b>22</b> Matte Black		<b>40</b> 4,000K (90+ CRI)		
<b>L</b>	Linear	<b>-13</b> Satin Nickel			<b>WD</b> Warm Dimming (90+ CRI)		
<b>P</b>	Prismatic	<b>-22</b> Matte Black	(Not available with <b>-03SA</b> finish)				
<b>S</b>	Solite						

#### CERTIFICATION

cULus **E343977** for damp locations

#### WARRANTY

1 year on components against manufacturing defects  
 5 years on LED arrays and drivers

# CONTRASTE

1009, rue du Parc Industriel  
 Lévis (Québec) G6Z 1C5 Canada  
 Tel.: 1-888-839-4624  
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# UR4J

## 4" Series

### Square Downlight Regressed Trim with Square Opening



#### GOOF RINGS

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**Code:** RS4-03SA (Satin Gold)  
RS4-04BR (Brushed Chrome)  
RS4-11 (Matte White)  
RS4-12BR (Brushed Nickel)  
RS4-13 (Satin Nickel)  
RS4-22 (Matte Black)

Outside dimension: 5-1/2" (140 mm) x 5-1/2" (140 mm)  
Inside diameter: ø 4-1/4" (108 mm)

# UR4J

## 4" Series

### Square Downlight Regressed Trim with Square Opening



## PHOTOMETRIC DATA

#### With performance 1 housing

	Spot		Narrow Flood		Flood	
<b>2,700K with 80+ CRI</b>	691 lms	69.1 lms/W	852 lms	85.2 lms/W	866 lms	86.6 lms/W
<b>3,000K with 80+ CRI</b>	707 lms	70.7 lms/W	872 lms	87.2 lms/W	887 lms	88.7 lms/W

<b>2,700K with 90+ CRI</b>	574 lms	57.4 lms/W	707 lms	70.7 lms/W	719 lms	71.9 lms/W
<b>3,000K with 90+ CRI</b>	593 lms	59.3 lms/W	731 lms	73.1 lms/W	743 lms	74.3 lms/W
<b>3,500K with 90+ CRI</b>	626 lms	62.6 lms/W	772 lms	77.2 lms/W	785 lms	78.5 lms/W
<b>4,000K with 90+ CRI</b>	643 lms	64.3 lms/W	792 lms	79.2 lms/W	806 lms	80.6 lms/W

Performance 1 Housings Factors	
XXUR-120E1	0.90
XXUR-120D1 ou XXUR-277D1	1

#### With performance 2 housing

	Spot		Narrow Flood		Flood	
<b>2,700K with 80+ CRI</b>	899 lms	59.9 lms/W	1,109 lms	73.9 lms/W	1,127 lms	75.1 lms/W
<b>3,000K with 80+ CRI</b>	921 lms	61.4 lms/W	1,136 lms	75.7 lms/W	1,155 lms	77 lms/W

<b>2,700K with 90+ CRI</b>	747 lms	49.8 lms/W	921 lms	61.4 lms/W	936 lms	62.4 lms/W
<b>3,000K with 90+ CRI</b>	772 lms	51.4 lms/W	952 lms	63.4 lms/W	968 lms	64.5 lms/W
<b>3,500K with 90+ CRI</b>	815 lms	54.3 lms/W	1,005 lms	67 lms/W	1,022 lms	68.1 lms/W
<b>4,000K with 90+ CRI</b>	837 lms	55.8 lms/W	1,032 lms	68.8 lms/W	1,049 lms	69.9 lms/W
<b>Warm Dimming with 90+ CRI</b>	451 lms	30 lms/W	556 lms	37 lms/W	566 lms	37.7 lms/W

Performance 2 Housings Factors	
XXUR-120E2	0.95
XXUR-120EB2, XXUR-120D2, XXUR-2772 ou XXUR-277D2	1

Lens Factors	
STD	1
C	0.97
F	0.68
H	0.54

Reflectors Factors	
AN	0.99
11	1
22	0.97

# CONTRASTE

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# UR4J

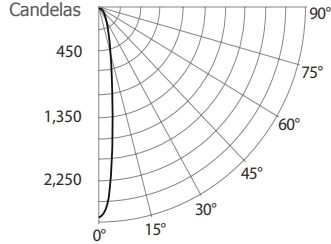
## 4" Series Square Downlight Regressed Trim with Square Opening



### PHOTOMETRIC DATA

#### 3,000K, 90+ CRI, Spot, Performance 1

##### CANDLEPOWER DISTRIBUTION



##### LIGHT CONE

Distance	FC	DIA
06'	73.3	1.7'
08'	41.2	2.3'
10'	26.4	2.8'
12'	18.3	3.4'
14'	13.5	4.0'
16'	10.3	4.5'

Beam: 16"  
Beam Edge defined as 50% of Maximum Nadir Candle-power.

##### LUMINAIRE

Performance 1 LED	3,000K Spot	
CPCB / Lumens	2,638 / 593.1	
Watts	120V	277V
Operating AMPS	0.083A	0.036A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	59.3	
Spacing Criteria	0.07	

##### COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80			50			30			
Wall Reflect %	50	30	50	30	50	30	50	30	50	30
RCR 0	119	119	111	111	106	106	106	106	106	106
2	104	100	99	96	96	94	96	94	96	94
4	92	87	89	85	87	84	87	84	87	84
6	83	78	81	77	80	76	80	76	80	76
8	76	71	75	70	74	69	74	69	74	69
10	70	65	69	64	68	64	68	64	68	64

Zonal Cavity Method  
Effective Floor Cavity Reflectance 20%

##### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	45.3	76.6%
0-40	547.5	92.3%
0-60	574.4	96.9%
60-90	18.6	3.1%
0-90	593.1	100%

##### MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	29	0.44
6'	16	0.25
7'	11	0.17
8'	11	0.17
9'	7	0.11

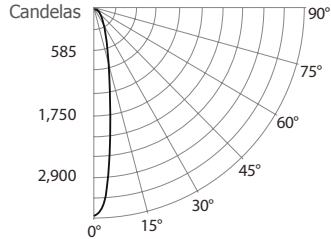
38' x 38' x 10' Room. Workplan located 2-1/2' (30").  
Reflectance factor 80%/50%/30%

##### CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS
0	2,638
15	585
30	202
45	22
65	8
75	7
90	0

#### 3,000K, 90+ CRI, Spot, Performance 2

##### CANDLEPOWER DISTRIBUTION



##### LIGHT CONE

Distance	FC	DIA
06'	95.4	1.7'
08'	53.7	2.3'
10'	34.4	2.8'
12'	23.9	3.4'
14'	17.5	4.0'
16'	13.4	4.5'

Beam: 16"  
Beam Edge defined as 50% of Maximum Nadir Candle-power.

##### LUMINAIRE

Performance 2 LED	3,000K Spot	
CPCB / Lumens	3,435 / 771.2	
Watts	120V	277V
Operating AMPS	0.125A	0.054A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	51.4	
Spacing Criteria	0.07	

##### COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80			50			30			
Wall Reflect %	50	30	50	30	50	30	50	30	50	30
RCR 0	119	119	111	111	106	106	106	106	106	106
2	104	100	99	96	96	94	96	94	96	94
4	92	87	89	85	87	84	87	84	87	84
6	83	78	81	77	80	76	80	76	80	76
8	76	71	75	70	74	70	74	70	74	70
10	70	65	69	65	68	64	68	64	68	64

Zonal Cavity Method  
Effective Floor Cavity Reflectance 20%

##### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	591.6	76.7%
0-40	713.5	92.5%
0-60	747.7	96.9%
60-90	23.5	3.1%
0-90	771.2	100%

##### MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	37	0.66
6'	21	0.37
7'	15	0.26
8'	15	0.26
9'	9	0.17

38' x 38' x 10' Room. Workplan located 2-1/2' (30").  
Reflectance factor 80%/50%/30%

##### CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS
0	3,435
15	762
30	263
45	28
65	10
75	9
90	0

# UR4J

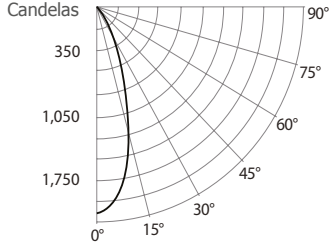
## 4" Series Square Downlight Regressed Trim with Square Opening



### PHOTOMETRIC DATA

#### 3,000K, 90+ CRI, Narrow Flood, Performance 1

##### CANDLEPOWER DISTRIBUTION



##### LIGHT CONE

Distance	FC	DIA
06'	55.9	3.5'
08'	31.5	4.7'
10'	20.1	5.9'
12'	14.0	7.1'
14'	10.3	8.3'
16'	7.9	9.5'

Beam: 33°  
Beam Edge defined as 50% of Maximum Nadir Candle-power.

##### LUMINAIRE

Performance 1 LED	3,000K Narrow Flood	
CPCB / Lumens	2,014	/ 730.9
Watts	120V	277V
	10W	10W
Operating AMPS	0.083A	0.036A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	73	
Spacing Criteria	0.14	

##### 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	106	
2	106	103	102	99	99	97	99	97	
4	96	92	93	90	91	88	91	88	
6	88	83	86	82	85	81	85	81	
8	81	76	80	76	79	75	79	75	
10	75	71	74	70	73	70	73	70	

Zonal Cavity Method  
Effective Floor Cavity Reflectance 20%

##### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	674.5	92.3%
0-40	725.2	99.2%
0-60	730.9	100%
60-90	0	0%
0-90	730.9	100%

##### MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	36	0.44
6'	20	0.25
7'	14	0.17
8'	14	0.17
9'	9	0.11

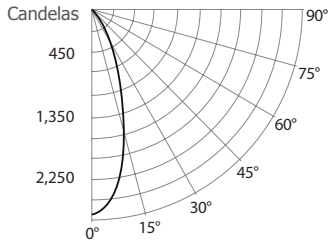
38' x 38' x 10' Room. Workplan located 2-1/2' (30").  
Reflectance factor 80%/50%/30%

##### CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS
0	2,014
15	1,127
30	216
45	4
60	0
75	0
90	0

#### 3,000K, 90+ CRI, Narrow Flood, Performance 2

##### DISTRIBUTION DES CANDELAS



##### LIGHT CONE

Distance	FC	DIA
06'	72.9	3.5'
08'	41.0	4.7'
10'	26.3	5.9'
12'	18.2	7.1'
14'	13.4	8.3'
16'	10.3	9.5'

Beam: 33°  
Beam Edge defined as 50% of Maximum Nadir Candle-power.

##### LUMINAIRE

Performance 2 LED	3,000K Narrow Flood	
CPCB / Lumens	2,623	/ 952
Watts	120V	277V
	15W	15W
Operating AMPS	0.125A	0.054A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	63.5	
Spacing Criteria	0.14	

##### 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	106	
2	106	103	102	99	99	97	99	97	
4	96	92	93	90	91	88	91	88	
6	88	83	86	82	85	81	85	81	
8	81	76	80	76	79	75	79	75	
10	75	71	74	70	73	70	73	70	

Zonal Cavity Method  
Effective Floor Cavity Reflectance 20%

##### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	878.4	92.3%
0-40	944.5	99.2%
0-60	952	100%
60-90	0	0%
0-90	952	100%

##### MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	47	0.66
6'	27	0.37
7'	18	0.26
8'	18	0.26
9'	12	0.17

38' x 38' x 10' Room. Workplan located 2-1/2' (30").  
Reflectance factor 80%/50%/30%

##### CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS
0	2,623
15	1,468
30	281
45	6
60	0
75	0
90	0

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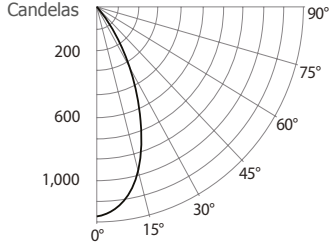
## 4" Series Square Downlight Regressed Trim with Square Opening



### PHOTOMETRIC DATA

#### 3,000K, 90+ CRI, Flood, Performance 1

##### CANDLEPOWER DISTRIBUTION



##### LIGHT CONE

Distance	FC	DIA
06'	32.2	5.4'
08'	18.1	7.2'
10'	11.6	9.0'
12'	8.1	10.8'
14'	5.9	12.6'
16'	4.5	14.4'

Beam: 48°  
Beam Edge defined as 50% of Maximum Nadir Candle-power.

##### LUMINAIRE

Performance 1 LED	3,000K Flood	
CPCB / Lumens	1,159 / 730.6	
Watts	120V	277V
	10W	10W
Operating AMPS	0.083A	0.036A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	73	
Spacing Criteria	0.20	

##### 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	106	
2	105	101	100	97	97	94	94	94	
4	93	88	89	85	88	84	84	84	
6	83	77	81	76	79	75	75	75	
8	75	69	73	68	72	68	68	68	
10	68	62	67	62	66	62	62	62	

Zonal Cavity Method  
Effective Floor Cavity Reflectance 20%

##### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	601.4	82.3%
0-40	704.7	96.5%
0-60	729.7	99.9%
60-90	0.9	0.1%
0-90	730.6	100%

##### MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	36	0.44
6'	20	0.25
7'	14	0.17
8'	14	0.17
9'	9	0.11

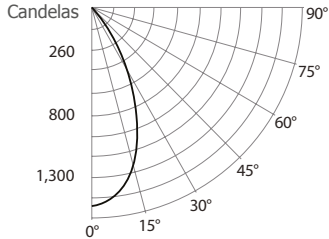
38' x 38' x 10' Room. Workplan located 2-1/2' (30").  
Reflectance factor 80%/50%/30%

##### CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS
0	1,159
15	917
30	320
45	26
60	2
75	0
90	0

#### 3,000K, 90+ CRI, Flood, Performance 2

##### CANDLEPOWER DISTRIBUTION



##### LIGHT CONE

Distance	FC	DIA
06'	42.0	5.4'
08'	23.7	7.2'
10'	15.1	9.0'
12'	10.5	10.8'
14'	7.7	12.6'
16'	5.9	14.4'

Beam: 48°  
Beam Edge defined as 50% of Maximum Nadir Candle-power.

##### LUMINAIRE

Performance 2 LED	3,000K Flood	
CPCB / Lumens	1,514 / 955	
Watts	120V	277V
	15W	15W
Operating AMPS	0.125A	0.054A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	63.6	
Spacing Criteria	0.20	

##### 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	106	
2	105	101	100	97	97	94	94	94	
4	93	88	89	85	87	84	84	84	
6	83	77	81	76	79	75	75	75	
8	75	69	73	68	72	68	68	68	
10	68	62	66	62	66	62	62	62	

Zonal Cavity Method  
Effective Floor Cavity Reflectance 20%

##### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	785.7	82.3%
0-40	920.7	96.4%
0-60	953.4	99.8%
60-90	1.6	0.2%
0-90	955	100%

##### MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	47	0.66
6'	26	0.37
7'	18	0.26
8'	18	0.26
9'	12	0.17

38' x 38' x 10' Room. Workplan located 2-1/2' (30").  
Reflectance factor 80%/50%/30%

##### CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS
0	1,514
15	1,198
30	418
45	34
60	3
75	0
90	0