

LED Curved Cove Light Fixture MRI Compatible



Product Description

A non-ferrous, recessed ceiling mount luminaire, for use as an interior architectural design lighting feature. The Curved Cove Light Fixture may be used anywhere within a Healthcare Facility including MRI scan rooms.

Specifications

Cove Soffit Construction

- Structure: Aluminum
- Fasteners: Stainless Steel
- Light Diffusing Polymer
- Exposed Face: Powder Coated
- 80.75"l x 6.75"w x 4.09"d
- 2051 x 171.5 x 104mm
- Welded/Mechanically Fastened

One Year Limited Warranty

- Complete Component

LEDs

- (3) 1m LED Light Strips/80" Section
- Warm White or RGB

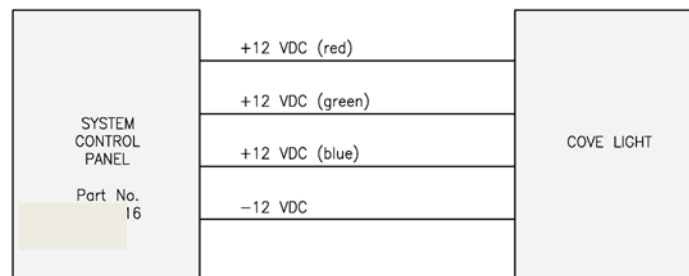
Electrical Input

- 12 VDC, 30 watts (4-wire RGB) per 80" section
- Electrical Junction Box

Approval Listings

- ETL / cUL / CE

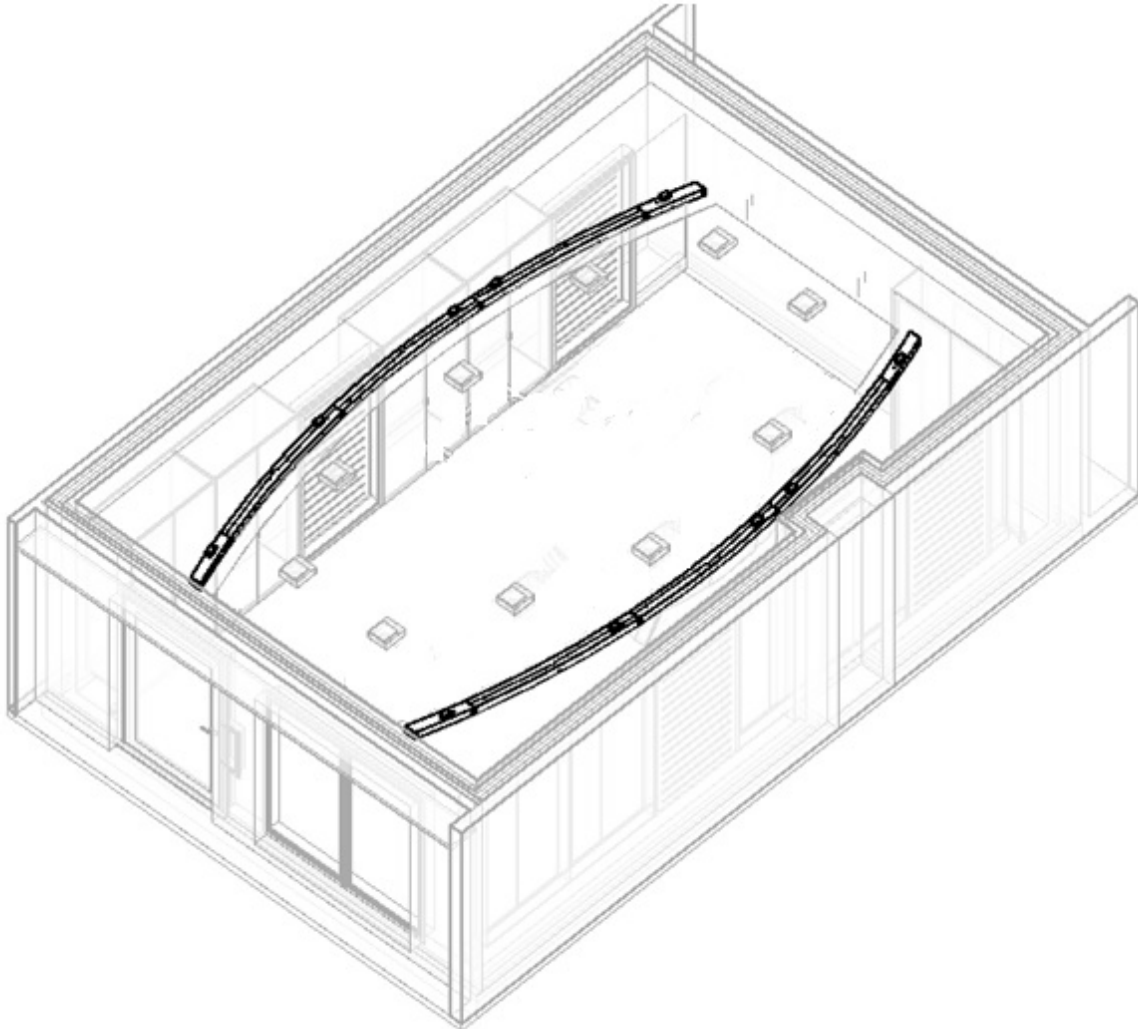
Circuit Diagram



3D Installed View

Standard installation is six pieces, 19'-9" (6m) total length
(connected end-to-end, 3 per side)

Extended installation is ten pieces, 24'-0" (7.3m) total length
(connected end to end, 5 per side)

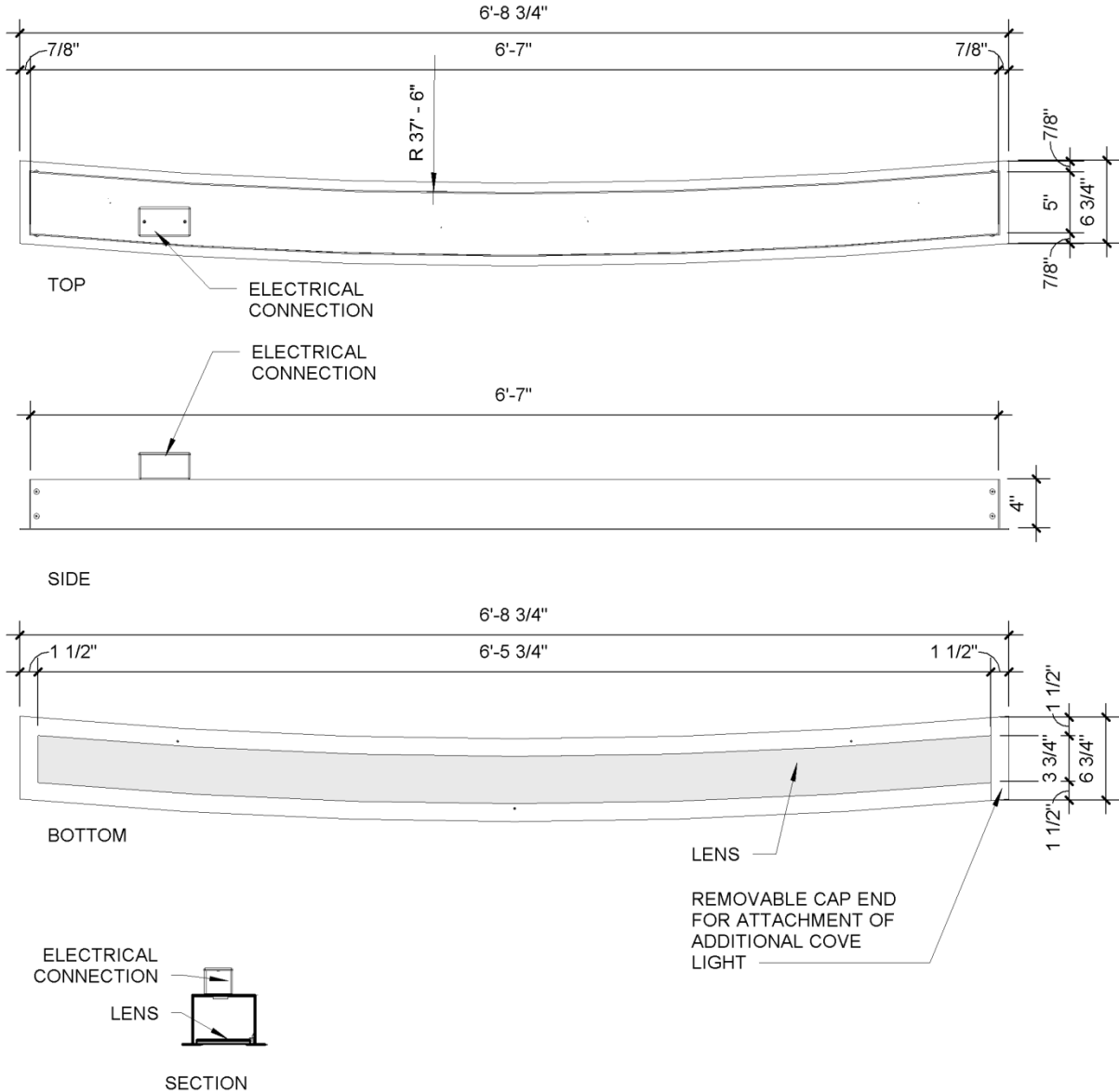


3D transparent view with highlighted "Curved Cove Lights"

Physical Properties

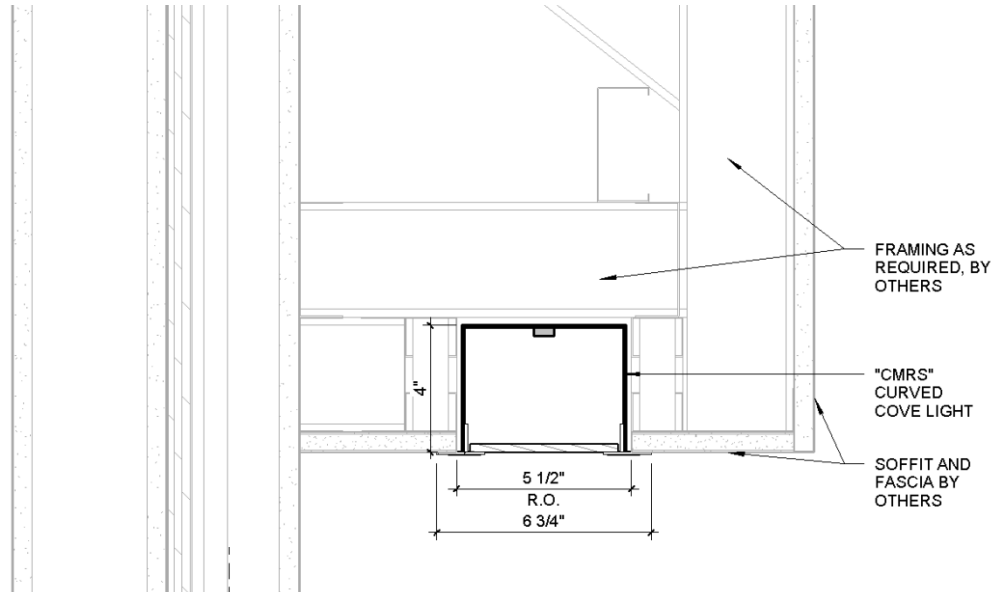
Note: Do not install insulation within 76 mm (3 in) of any part of this luminaire.
Ne pas mettre l'isolant a moins de 76mm (3 po) de toute partie duliminaire.

Dimensions: 80.75"l x 6.75"w x 4.09"d (2051 x 171.5 x 104mm)
Weight: 15 lbs (6.8kg)

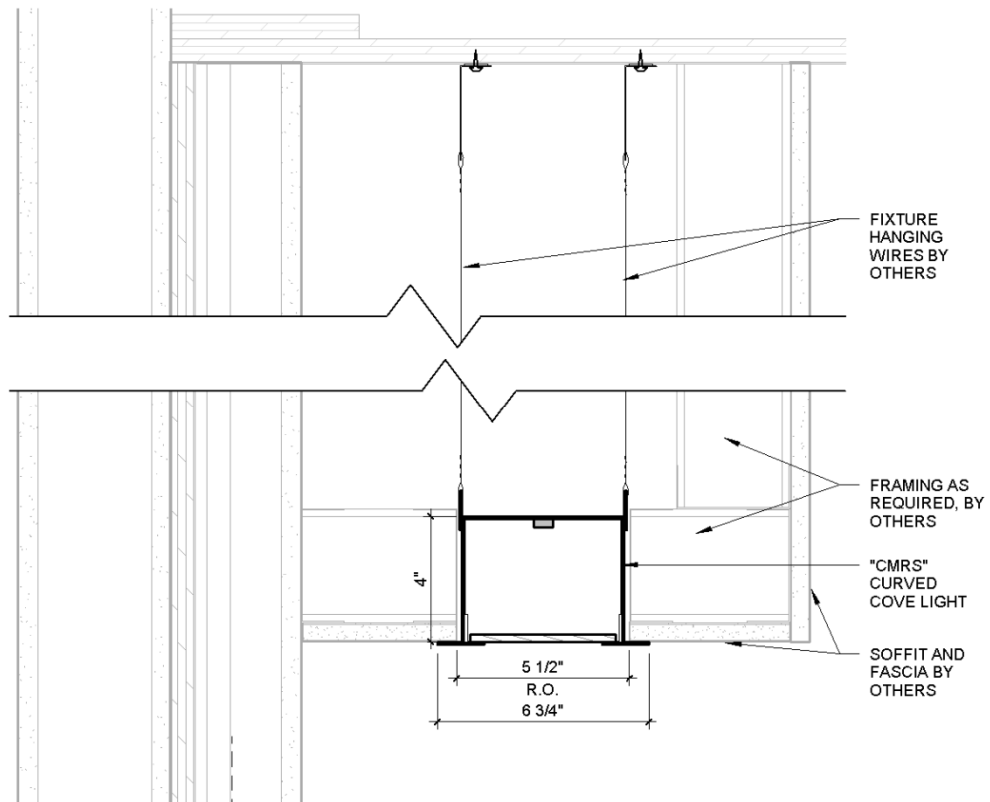


Installation Detail

- Section Detail A (direct fastening)



- Section Detail B (hung by wire)



Warm White Rigid Bar LED Light Strip MRI Compatible



Product Description

A non-ferrous, LED light strip for use within a fixture or under cabinet mounting as an interior architectural design lighting package. PDC LED Light Strips can be used anywhere within a Health Care Facility including MRI Scan Rooms.

Specifications

Material

- Housing: aluminum

LEDs

- Lumens: 853.5
- Efficacy: 72.99
- Color Rendering Index: 64.31
- Color Related Temp: 3,187
- 60 LED's / 1m (3.28')

Electrical Input

- 12 VDC, 11.6 Watts, 0.97Amps

Dimension

- 1m / 3.28'

Three Year Limited Warranty

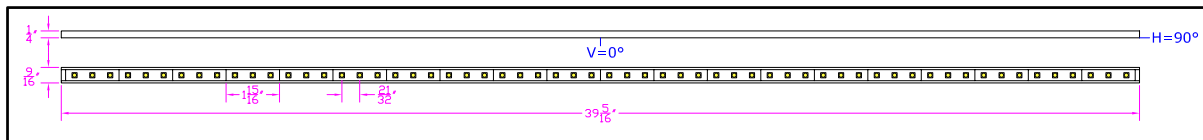
- Complete Component

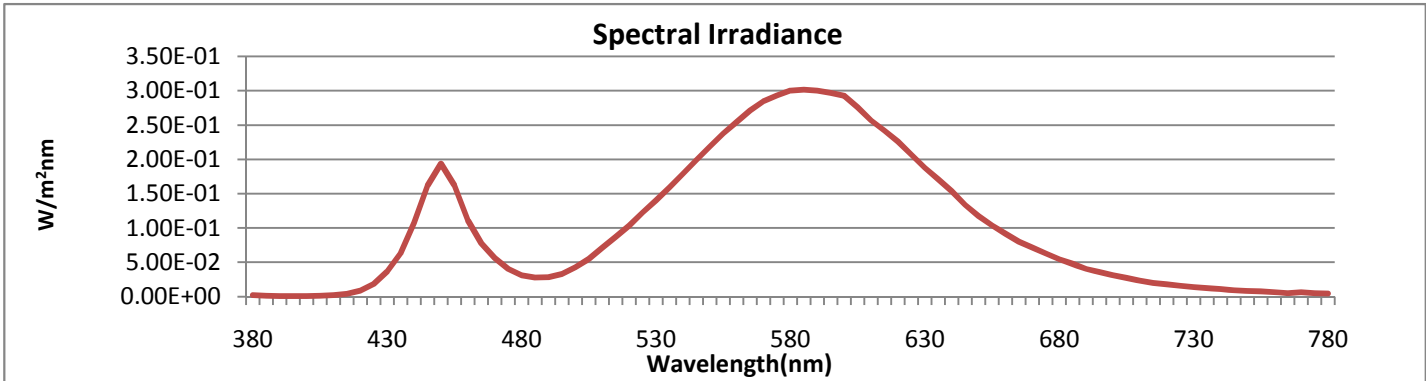
Approval Listings

- ETL / UL / CSA / CE

LM-79 Test Summary

Manufacturer:	PDC FACILITIES
Model Number:	560-121
Total Lumens:	853.50
Input Voltage (VDC):	12.00
Input Current (Amp):	0.97
Input Power (W):	11.69
Input Power Factor:	N.A.
Efficacy:	72.99
Color Rendering Index (CRI):	64.31
Correlated Color Temperature (CCT):	3187
Chromaticity Coordinate x:	0.4255
Chromaticity Coordinate y:	0.4025
Ambient Temperature (°F):	77.0
Stabilization Time (Hours):	0:30
Total Operating Time (Hours):	0:50





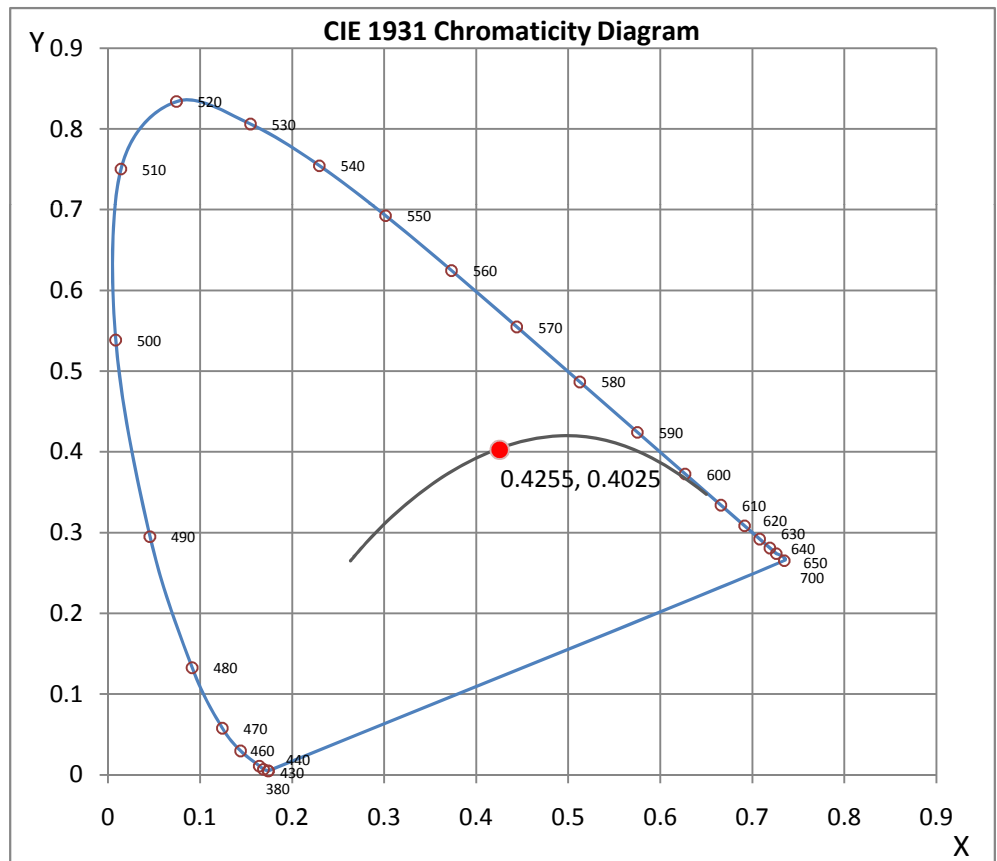
Wavelength	W/m ² nm	440	0.1076	510	0.0710	580	0.3001	650	0.1172	720	0.0181
380	0.0022	450	0.1938	520	0.1033	590	0.3001	660	0.0918	730	0.0139
390	0.0010	460	0.1111	530	0.1403	600	0.2928	670	0.0718	740	0.0109
400	0.0006	470	0.0562	540	0.1790	610	0.2568	680	0.0543	750	0.0083
410	0.0021	480	0.0312	550	0.2187	620	0.2258	690	0.0405	760	0.0064
420	0.0085	490	0.0281	560	0.2546	630	0.1876	700	0.0311	770	0.0064
430	0.0366	500	0.0427	570	0.2847	640	0.1536	710	0.0233	780	0.0044

CRI & CCT

x	0.4255
y	0.4025
u'	0.2439
v'	0.5190
CRI	64.31
CCT	3187
Duv	0.24657

R Values

R1	58.95
R2	76.06
R3	89.44
R4	57.27
R5	57.14
R6	63.79
R7	75.57
R8	36.26
R9	-56.32
R10	43.61
R11	46.13
R12	30.73
R13	61.70
R14	93.89



Test Methods

Photometric Measurements - Goniophotometer

A Custom Light Laboratory Type C Rotating Mirror Goniophotometer was used to measure candelas(intensity) at each angle of distribution as defined by IESNA for the appropriate fixture type.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

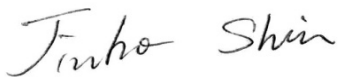
Spectral Measurements - Integrating Sphere

A Sensing Spectroradiometer SPR-3000, in conjunction with Light Laboratory 2 meter integrating sphere was used to measure chromaticity coordinates, correlated color temperature(CCT) and the color rendering index(CRI) for each

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

Test Report Released by:



Joseph Shin
Engineering Manager

Test Report Reviewed by:



Steve Kang
Quality Assurance

**Attached are photometric data reports. Total number of pages: 10*



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Photometric Test Report

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L04121001.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L04121001
[TESTLAB] LIGHT LABORATORY, INC.
[ISSUEDATE] 4/3/2012
[MANUFAC] PDC FACILITIES
[LUMCAT] 560-121
[LUMINAIRE] 39-5/16"L. X 9/16"W. X 1/4"H. LED BAR
[MORE] 20 LED MODULES WITH 1-15/16" SPACING,
[MORE] EACH MODULE HAS 3 WARM WHITE LEDS WITH 21/32" SPACING,
[MORE] 60 LEDS TOTAL
[LAMPPOSITION] 0,90
[LAMPCAT] WARM WHITE LED
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
[_POWER SUPPLY] 12VDC CONSTANT VOLTAGE SOURCE
[_INPUT] 12VDC, 11.69W
[_TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	854
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	11.69
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.28 ft
Luminous Width (90-270)	0.05 ft
Luminous Height	0.00 ft

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L04121001.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18656	18574	18326
55	18176	18066	17657
65	16970	16828	16357
75	14552	14381	13683
85	9488	9379	8076

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L04121001.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	292.688	292.688	292.688	292.688	292.688
5	291.838	291.530	291.435	291.626	291.040
10	288.332	288.174	287.891	288.058	287.111
15	282.400	282.329	281.948	282.263	281.187
20	274.791	274.242	274.400	274.059	272.738
25	264.223	263.463	263.592	263.592	261.722
30	251.355	251.392	250.665	251.118	249.212
35	236.650	236.729	236.335	236.114	234.224
40	220.384	219.545	219.562	218.797	216.637
45	201.177	201.347	200.296	199.906	197.621
50	180.624	180.811	179.378	179.831	176.836
55	158.991	157.923	158.031	156.868	154.447
60	134.500	133.088	133.541	132.710	130.512
65	109.370	109.706	108.460	109.037	105.424
70	82.013	83.043	82.258	82.125	79.645
75	57.439	56.359	56.762	55.623	54.008
80	33.048	32.749	32.450	32.159	30.157
85	12.611	12.686	12.466	11.859	10.734
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L04121001.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	228.82	N.A.	26.80
0-40	376.50	N.A.	44.10
0-60	671.31	N.A.	78.70
0-90	853.50	N.A.	100.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
0-180	853.50	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	27.71
10-20	79.65
20-30	121.46
30-40	147.67
40-50	154.41
50-60	140.40
60-70	107.03
70-80	59.76
80-90	15.40
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

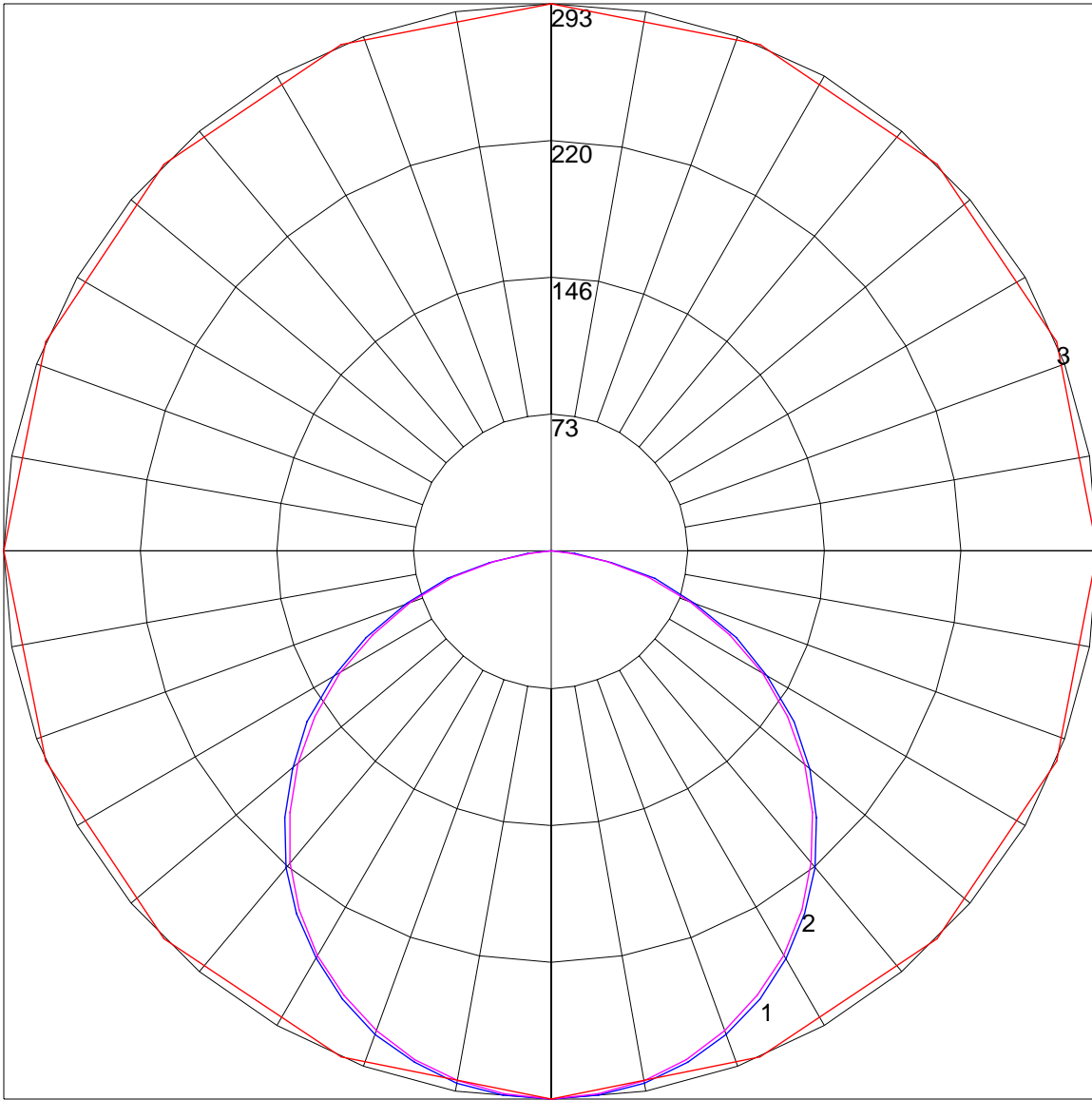
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 292.688 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.) : BLUE
2 - Vertical Plane Through Horizontal Angles (90 - 270) : MAGENTA
3 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.) : RED