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Report No: L121706461R01



**Report No:** L121706461R01 **Issue Date:** 1/23/2018

**Report Prepared For:** Number Eight Lighting Company  
526 Portal Street, Cotati, CA 94931

**Model Number:** 804/L2-S-HI-40/WH/DIM1-8-1400 with FS-P-1-WH trim

**Test:** Photometric/Colorimetric/Electrical Test

**Standards Used:** Appropriate part or all test guidelines were used for test performed:  
*IESNA LM79: 2008* Approved Methods for Electrical and Photometric Measurements of Solid-State Lighting Products  
*ANSI NEMA ANSLG C78.377: 2008* Specification of the Chromaticity of Solid State Lighting Products  
*ANSI C82.77:2002:* Harmonic Emission Limits-Related Quality Requirements for Lighting Equipment

**Description of Sample:** Client submitted the sample. Received in working and undamaged condition. No modifications were necessary.

**Testing Condition:** Fixture is tested with no special conditions.

**Sample Arrival Date:** 1/2/18

**Date of Tests:** 1/23/18 - 1/23/18

**Seasoning of Sample:** No seasoning was performed in accordance with IESNA LM-79.

**Equipment List**

Equipment Used	Model No	Stock No	Calibration Due Date
Chroma Programmable AC Source	61604	PS-AC02	--
Yokogawa Digital Power Meter	WT210	MT-EL06-S4	1/9/19
BK PRECISION	1747	PS-DC04	1/10/19
Fluke Digital Thermometer	52K/J	MT-TP05	1/10/19
LLI Type C Goniophotometer System	RMG-C-MKII	CD-LL04-GC	--
LLI 2M Sphere	2MR97	CD-SN03-S2	--
LLI Spectroradiometer	SPR-3000	MT-SC01-S2	Before Use

\*All Results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.

**Test Summary**

<b>Manufacturer:</b>	Number Eight Lighting Company
<b>Model Number:</b>	804/L2-S-HI-40/WH/DIM1-8-1400 with FS-P-1-WH trim
<b>Driver Model Number:</b>	IntuitiveSystems ISD-701-1400-20-D
<b>Total Lumens:</b>	573.21
<b>Input Voltage (VAC/60Hz):</b>	120.00
<b>Input Current (Amp):</b>	0.17
<b>Input Power (W):</b>	20.69
<b>Input Power Factor:</b>	0.99
<b>Current ATHD @ 120V(%):</b>	6%
<b>Current ATHD @ 277V(%):</b>	N/A
<b>Efficacy:</b>	28
<b>Color Rendering Index (CRI):</b>	92
<b>Correlated Color Temperature (K):</b>	2928
<b>Chromaticity Coordinate x:</b>	0.4417
<b>Chromaticity Coordinate y:</b>	0.4049
<b>Ambient Temperature (°C):</b>	25.0
<b>Stabilization Time (Hours):</b>	0:40
<b>Total Operating Time (Hours):</b>	1:15

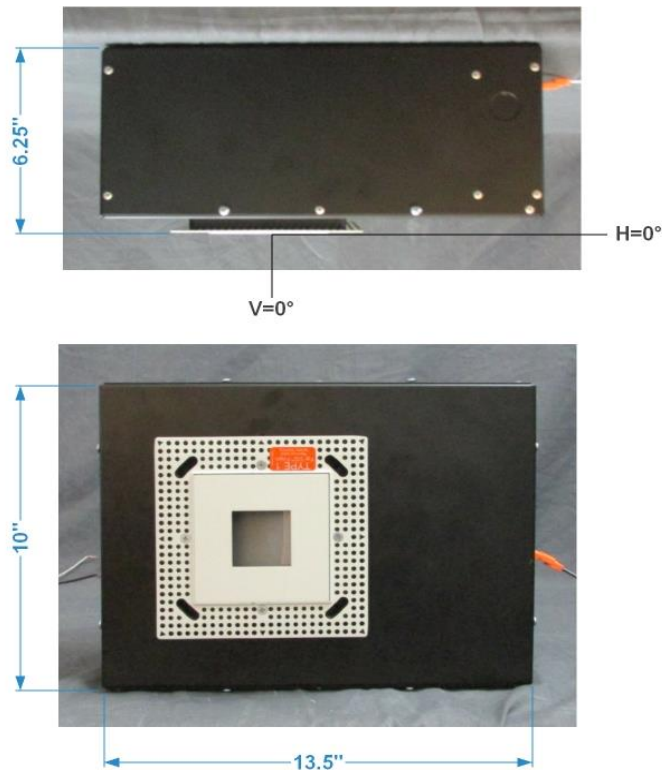
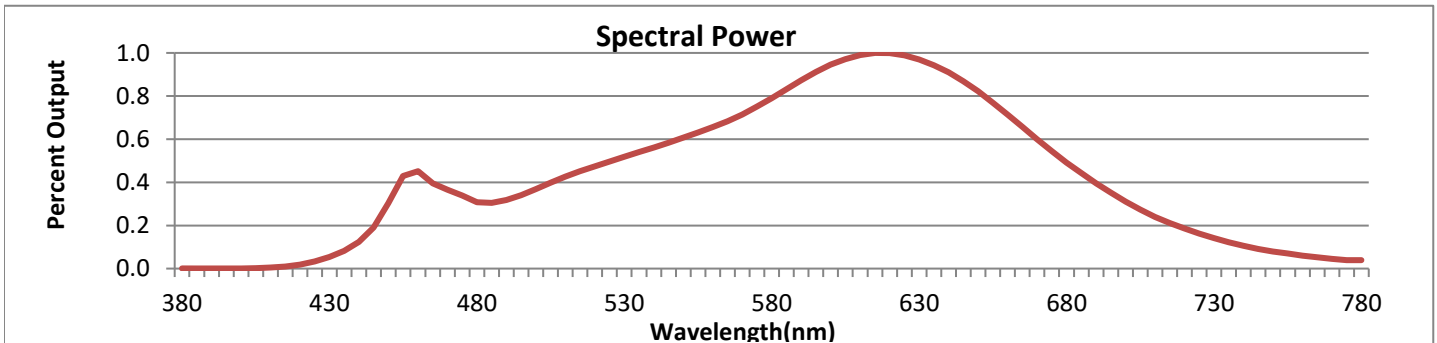


FIG. 1 LUMINAIRE

\*All Results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.



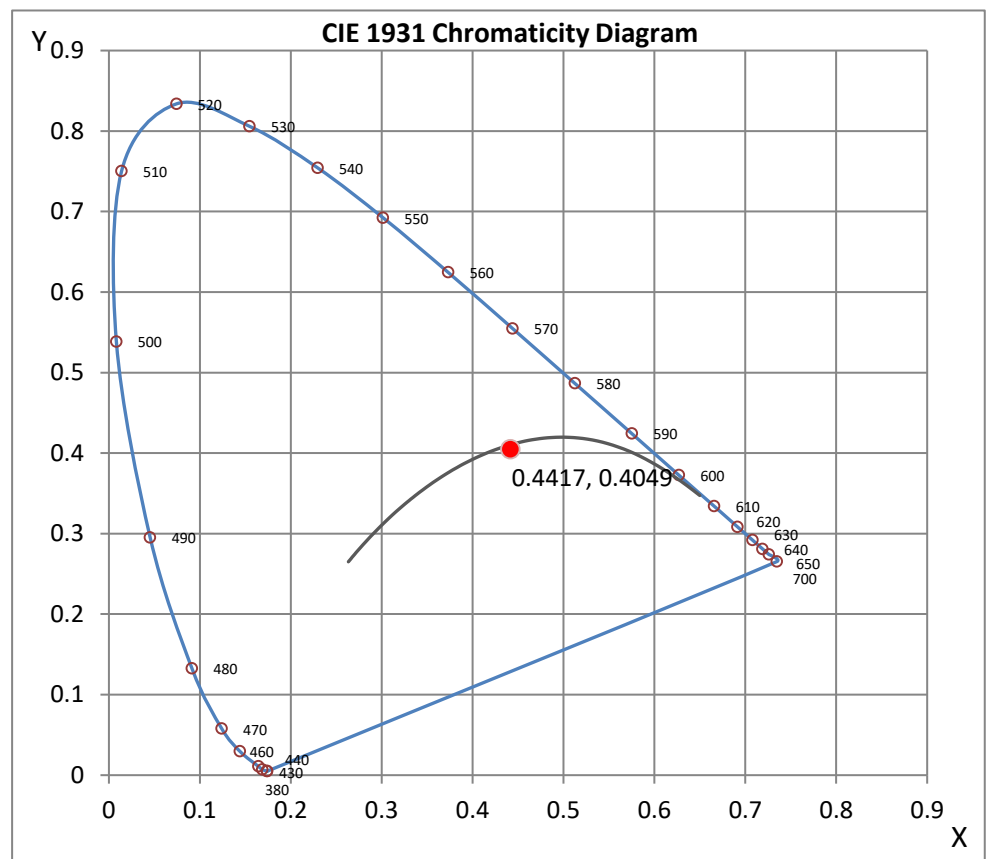
Wavelength	W/m <sup>2</sup> nm	440	0.1241	510	0.4270	580	0.7902	650	0.8219	720	0.1862
380	0.0008	450	0.3036	520	0.4742	590	0.8738	660	0.7145	730	0.1409
390	0.0010	460	0.4510	530	0.5186	600	0.9453	670	0.5995	740	0.1053
400	0.0012	470	0.3659	540	0.5620	610	0.9897	680	0.4921	750	0.0798
410	0.0042	480	0.3081	550	0.6071	620	0.9990	690	0.3949	760	0.0602
420	0.0190	490	0.3186	560	0.6557	630	0.9702	700	0.3103	770	0.0453
430	0.0544	500	0.3682	570	0.7143	640	0.9108	710	0.2399	780	0.0393

**CRI & CCT**

x	0.4417
y	0.4049
u'	0.2533
v'	0.5224
CRI	92.30
CCT	2928
Duv	-0.00030

**R Values**

R1	93.52
R2	99.01
R3	96.22
R4	91.08
R5	93.34
R6	96.93
R7	89.07
R8	79.04
R9	56.60
R10	96.69
R11	92.47
R12	83.36
R13	95.40
R14	98.81



\*All Results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.

## 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 sample.

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.

### Disclaimers:

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST or any agency of Federal Government.

Report Prepared by : Joseph Shin

Test Report Released by:



Jeff Ahn  
Engineering Manager

Test Report Reviewed by:



Steve Kang  
Quality Assurance

*\*Attached are photometric data reports. Total number of pages: 11*



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# Photometric Test Report

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L121706461R01.IES**

## DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L121706461R01  
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)  
[ISSUEDATE] 1/23/2018  
[MANUFAC] Number Eight Lighting Company  
[LUMCAT] 804/L2-S-HI-40/WH/DIM1-8-1400 with FS-P-1-WH trim  
[LUMINAIRE] LED Recessed Downlight, 40° Beam Spread, 0° Aiming Angle,  
[MORE] 1.75" x 1.75" Aperture Trim, Wall Wash Lens Accessory  
[BALLASTCAT] IntuitiveSystems ISD-701-1400-20-D  
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
[INPUT] 120VAC, 20.69W  
[TEST PROCEDURE] IESNA:LM-79-08

## CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	573
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	28
Total Luminaire Watts	20.69
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.68
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.20
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.15 ft
Luminous Width (90-270)	0.15 ft
Luminous Height	0.00 ft

## LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7003	28693	122646
55	1008	7400	77820
65	0	532	33860
75	499	259	4469
85	2194	1481	768

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L121706461R01.IES**

**CANDELA TABULATION**

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
<b>0.0</b>	306.26	306.26	306.26	306.26	306.26	306.26	306.26	306.26	306.26	306.26
<b>2.0</b>	297.38	297.51	297.31	296.91	297.04	297.31	297.65	298.39	298.79	299.87
<b>4.0</b>	287.42	287.29	287.62	287.22	287.69	288.30	289.04	289.84	291.59	293.48
<b>6.0</b>	275.98	276.18	276.25	276.45	277.13	278.07	279.62	280.83	282.71	285.40
<b>8.0</b>	263.33	263.60	263.74	264.41	265.29	266.63	268.52	270.74	273.43	276.59
<b>10.0</b>	249.74	249.88	250.28	251.29	252.70	254.39	257.01	259.84	263.20	267.51
<b>11.0</b>	242.75	242.81	243.35	244.29	245.91	248.13	250.75	253.92	257.95	262.39
<b>12.0</b>	235.08	235.28	235.95	237.10	238.58	241.06	244.16	248.13	252.37	257.35
<b>13.0</b>	227.27	227.61	228.35	229.63	231.58	234.13	237.90	241.87	246.58	252.44
<b>14.0</b>	219.74	219.87	220.75	222.09	224.31	227.34	231.24	235.75	240.66	246.51
<b>15.0</b>	211.39	211.87	212.61	214.15	216.44	219.33	223.91	229.02	234.61	240.93
<b>16.0</b>	203.05	203.52	204.73	206.42	209.04	212.20	216.91	222.16	228.01	235.48
<b>17.0</b>	194.98	195.31	196.26	198.41	201.10	204.94	209.58	215.43	221.76	229.16
<b>18.0</b>	186.50	186.97	187.98	189.80	192.76	196.46	202.18	208.16	215.09	222.76
<b>19.0</b>	177.89	178.36	179.71	181.66	184.75	188.92	194.64	201.03	208.37	217.32
<b>20.0</b>	169.14	169.55	170.96	173.38	176.68	181.25	186.97	193.70	201.44	210.18
<b>22.0</b>	151.65	152.12	154.00	156.22	159.66	164.16	170.96	178.43	186.97	197.20
<b>24.0</b>	134.56	135.03	136.51	139.27	143.04	147.95	155.48	163.56	172.98	181.93
<b>26.0</b>	117.34	117.74	119.62	122.45	126.42	131.67	139.14	147.48	157.23	168.34
<b>28.0</b>	100.79	101.39	103.41	106.44	110.61	116.26	123.53	132.14	142.16	153.87
<b>30.0</b>	85.18	85.72	87.67	90.76	95.00	100.58	108.32	116.80	127.16	139.94
<b>32.5</b>	66.74	67.35	69.16	71.99	76.09	81.61	89.62	98.09	108.52	120.63
<b>35.0</b>	50.60	51.07	52.68	55.84	59.88	65.46	72.39	80.67	91.03	101.80
<b>37.5</b>	36.87	37.34	38.89	41.24	45.08	49.99	56.58	64.66	74.14	86.72
<b>40.0</b>	25.43	25.77	27.11	29.13	32.09	36.60	42.93	49.85	58.60	69.50
<b>45.0</b>	10.36	10.63	11.51	12.72	14.53	17.56	21.73	26.85	33.91	42.45
<b>50.0</b>	3.50	3.70	3.90	4.44	5.25	6.39	8.55	11.64	15.74	22.27
<b>55.0</b>	1.21	1.28	1.28	1.35	1.55	1.95	2.62	3.84	5.79	8.88
<b>60.0</b>	0.54	0.40	0.47	0.54	0.54	0.54	0.74	1.01	1.48	2.56
<b>65.0</b>	0.00	0.20	0.20	0.20	0.27	0.27	0.20	0.20	0.27	0.47
<b>70.0</b>	0.14	0.14	0.20	0.20	0.20	0.14	0.07	0.14	0.14	0.07
<b>75.0</b>	0.27	0.34	0.40	0.27	0.27	0.27	0.14	0.14	0.07	0.14
<b>80.0</b>	0.40	0.34	0.34	0.34	0.27	0.20	0.14	0.34	0.20	0.27
<b>85.0</b>	0.40	0.40	0.34	0.27	0.27	0.27	0.34	0.27	0.34	0.27
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Angles**      **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
<b>0.0</b>	306.26	306.26	306.26	306.26	306.26	306.26	306.26	306.26	306.26	306.26
<b>2.0</b>	301.21	303.10	303.64	304.24	304.71	305.25	305.99	307.00	307.87	308.41
<b>4.0</b>	295.43	297.04	298.99	300.27	302.22	303.97	305.32	306.60	308.34	309.76
<b>6.0</b>	288.50	291.19	293.75	296.30	298.52	301.01	303.50	306.12	309.02	310.97
<b>8.0</b>	280.36	284.19	288.56	292.26	295.43	298.93	302.42	305.99	309.49	313.12
<b>10.0</b>	272.48	277.19	282.17	286.95	291.66	296.50	301.01	305.25	309.83	313.73
<b>11.0</b>	267.91	273.56	279.21	284.33	289.91	295.16	300.20	305.52	310.09	314.74
<b>12.0</b>	263.00	268.99	275.44	281.70	288.23	293.68	299.33	305.05	309.96	314.67
<b>13.0</b>	258.56	265.22	272.15	278.81	285.40	291.79	298.45	304.85	310.30	315.14
<b>14.0</b>	253.44	260.98	268.31	275.65	282.85	290.11	297.38	304.11	310.36	315.41
<b>15.0</b>	247.99	255.80	263.60	272.42	281.03	288.63	296.17	303.23	309.69	315.95
<b>16.0</b>	243.15	251.70	260.31	268.92	277.67	286.14	294.82	303.03	309.69	315.68
<b>17.0</b>	237.50	246.72	255.87	265.35	274.91	283.85	292.94	302.09	309.89	315.88
<b>18.0</b>	231.38	240.93	250.48	262.33	272.22	282.04	291.59	300.27	308.41	315.68
<b>19.0</b>	226.40	236.22	246.65	257.62	268.52	279.15	289.78	299.06	308.55	316.22

**IES INDOOR REPORT  
PHOTOMETRIC FILENAME : L121706461R01.IES**

**CANDELA TABULATION - (Cont.)**

<b>20.0</b>	220.34	230.91	242.01	253.92	265.42	276.45	287.29	298.05	307.40	314.94
<b>22.0</b>	207.63	219.13	231.31	244.97	257.88	270.40	283.38	294.35	304.17	313.19
<b>24.0</b>	194.64	207.22	220.21	233.93	248.06	262.12	275.85	290.11	301.48	311.44
<b>26.0</b>	181.25	194.37	208.50	224.58	239.72	254.99	270.53	284.33	296.37	307.34
<b>28.0</b>	167.66	181.72	196.79	212.40	228.48	244.77	260.85	278.07	290.58	302.63
<b>30.0</b>	153.47	168.13	183.61	200.16	216.98	234.27	252.70	269.79	283.85	296.77
<b>32.5</b>	134.43	149.36	165.31	185.22	203.12	221.02	238.98	256.34	272.15	286.14
<b>35.0</b>	117.54	132.68	149.09	166.99	184.95	203.66	223.77	242.68	259.23	273.22
<b>37.5</b>	100.25	115.32	131.67	149.03	167.86	187.11	206.75	225.93	240.39	257.08
<b>40.0</b>	82.89	97.22	113.50	132.47	150.37	168.27	186.43	207.56	223.84	238.58
<b>45.0</b>	53.35	65.53	80.80	95.40	112.16	128.91	146.94	164.37	181.45	196.19
<b>50.0</b>	30.07	39.56	50.93	64.12	78.45	92.51	107.51	121.71	134.90	147.34
<b>55.0</b>	13.93	20.52	28.80	38.15	49.32	60.01	70.64	82.55	93.39	103.95
<b>60.0</b>	4.64	8.01	12.85	18.97	26.11	33.51	41.85	48.85	57.39	64.79
<b>65.0</b>	0.81	1.68	3.63	6.59	10.63	15.00	19.78	24.83	29.94	35.39
<b>70.0</b>	0.27	0.20	0.40	0.88	2.02	3.63	5.92	8.81	11.64	14.26
<b>75.0</b>	0.14	0.14	0.20	0.20	0.20	0.47	0.74	1.35	2.42	3.70
<b>80.0</b>	0.14	0.14	0.14	0.20	0.14	0.20	0.34	0.40	0.40	0.54
<b>85.0</b>	0.20	0.20	0.27	0.27	0.34	0.34	0.34	0.20	0.14	0.20
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Angles      Horizontal Angles**

	<b>100</b>	<b>105</b>	<b>110</b>	<b>115</b>	<b>120</b>	<b>125</b>	<b>130</b>	<b>135</b>	<b>140</b>	<b>145</b>
<b>0.0</b>	306.26	306.26	306.26	306.26	306.26	306.26	306.26	306.26	306.26	306.26
<b>2.0</b>	308.82	309.42	309.35	310.16	310.16	310.90	311.51	311.71	312.18	312.58
<b>4.0</b>	311.31	312.45	313.26	314.40	315.41	316.42	317.29	318.17	319.04	319.65
<b>6.0</b>	313.46	314.94	316.82	318.44	319.92	321.94	322.88	324.09	325.16	325.77
<b>8.0</b>	315.41	318.44	320.66	322.74	324.63	326.24	327.65	328.93	330.28	331.09
<b>10.0</b>	317.83	321.13	324.09	326.58	328.73	330.88	332.30	333.64	334.92	335.66
<b>11.0</b>	318.37	322.20	325.57	328.33	330.48	333.04	334.31	335.59	336.67	337.48
<b>12.0</b>	319.72	323.95	327.18	330.14	332.63	334.99	336.33	337.61	338.35	339.23
<b>13.0</b>	320.59	324.69	328.73	331.83	334.31	336.60	338.28	339.56	340.44	341.18
<b>14.0</b>	320.86	325.97	329.81	333.31	336.27	338.49	339.76	340.84	341.72	342.25
<b>15.0</b>	321.87	327.05	331.42	334.85	337.81	340.10	341.38	342.25	342.66	343.26
<b>16.0</b>	322.47	327.59	332.03	336.27	339.23	341.24	342.52	344.07	344.00	343.87
<b>17.0</b>	322.74	328.13	332.97	337.21	340.17	342.39	343.73	344.27	344.68	344.68
<b>18.0</b>	323.68	329.27	334.38	338.35	341.24	343.46	344.68	345.35	345.21	345.01
<b>19.0</b>	323.15	329.47	334.85	338.82	342.19	344.00	345.55	345.89	345.42	344.81
<b>20.0</b>	323.21	330.14	335.59	339.83	342.86	345.15	345.89	345.95	345.42	344.74
<b>22.0</b>	323.01	329.87	335.73	340.17	343.46	345.42	346.02	345.62	344.81	343.67
<b>24.0</b>	320.52	328.06	334.45	339.29	342.93	344.61	345.15	344.34	342.66	340.71
<b>26.0</b>	317.70	326.31	332.57	337.54	341.18	342.79	342.99	341.45	339.09	337.01
<b>28.0</b>	313.59	322.94	329.27	334.52	337.88	339.36	338.89	337.28	334.79	331.62
<b>30.0</b>	308.34	317.02	324.29	329.54	332.77	334.18	333.71	331.49	328.19	324.56
<b>32.5</b>	299.73	308.82	315.75	320.99	324.29	325.10	324.02	321.46	317.90	313.46
<b>35.0</b>	285.74	296.44	303.97	309.56	312.65	313.19	311.51	307.54	304.91	299.67
<b>37.5</b>	271.41	281.70	289.64	295.36	296.50	297.71	296.84	293.41	288.03	282.24
<b>40.0</b>	253.11	264.68	271.41	276.32	280.22	280.02	278.34	274.57	269.52	264.01
<b>45.0</b>	209.44	219.67	227.68	233.26	234.88	236.29	234.74	230.97	225.79	220.81
<b>50.0</b>	159.99	170.29	176.48	181.93	184.35	185.22	183.34	180.45	177.15	172.64
<b>55.0</b>	112.09	121.17	126.55	130.73	133.55	133.75	132.74	131.13	128.77	126.08
<b>60.0</b>	71.92	77.78	82.28	85.51	87.87	88.74	89.01	88.54	87.26	85.98
<b>65.0</b>	39.90	44.14	47.30	49.92	51.87	53.69	55.10	55.64	55.98	55.98
<b>70.0</b>	16.62	18.91	21.06	23.35	25.57	28.06	30.41	32.36	33.84	34.65
<b>75.0</b>	4.91	6.06	7.33	8.68	10.23	12.18	14.26	16.22	17.90	19.18

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**CANDELA TABULATION - (Cont.)**

<b>80.0</b>	0.74	1.28	1.82	2.56	3.30	4.10	5.18	6.32	7.67	8.68
<b>85.0</b>	0.14	0.27	0.40	0.47	0.61	0.74	0.81	0.94	1.08	1.41
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Horizontal Angles**

	<b>150</b>	<b>155</b>	<b>160</b>	<b>165</b>	<b>170</b>	<b>175</b>	<b>180</b>
<b>0.0</b>	306.26	306.26	306.26	306.26	306.26	306.26	306.26
<b>2.0</b>	313.46	314.13	315.14	315.81	316.96	317.43	317.29
<b>4.0</b>	320.39	321.46	322.54	323.89	324.36	324.96	325.37
<b>6.0</b>	327.05	327.59	329.00	330.28	330.75	331.35	331.69
<b>8.0</b>	332.09	333.17	334.11	334.99	335.19	336.06	335.86
<b>10.0</b>	336.54	337.41	338.28	338.89	339.36	339.70	339.76
<b>11.0</b>	338.76	339.23	339.97	340.71	340.91	340.84	340.71
<b>12.0</b>	340.03	340.77	341.51	341.85	341.72	342.19	341.78
<b>13.0</b>	341.38	342.25	342.25	342.59	342.93	342.72	342.72
<b>14.0</b>	342.66	342.99	342.93	343.33	343.20	343.40	342.99
<b>15.0</b>	343.60	343.60	343.80	343.80	343.53	343.67	343.40
<b>16.0</b>	343.87	343.73	343.73	343.80	343.87	343.26	343.53
<b>17.0</b>	344.21	343.80	343.73	343.53	343.13	343.13	342.99
<b>18.0</b>	344.61	344.00	343.33	342.93	342.66	342.72	342.59
<b>19.0</b>	344.61	342.99	342.46	341.92	341.78	341.31	341.11
<b>20.0</b>	343.73	342.66	341.65	341.04	340.64	339.97	339.90
<b>22.0</b>	342.05	340.17	338.96	337.48	336.13	335.73	335.86
<b>24.0</b>	338.69	336.00	334.25	332.77	331.56	330.48	330.08
<b>26.0</b>	334.58	331.29	328.93	326.71	324.83	324.09	323.62
<b>28.0</b>	328.33	324.56	321.80	319.11	317.02	315.95	315.54
<b>30.0</b>	320.79	315.95	312.65	310.03	307.87	306.33	305.86
<b>32.5</b>	309.08	304.38	299.93	296.44	293.95	292.40	291.86
<b>35.0</b>	294.35	288.97	284.12	280.56	278.27	275.98	276.25
<b>37.5</b>	278.47	272.28	266.70	263.33	260.64	258.02	258.76
<b>40.0</b>	259.36	252.70	248.26	244.56	241.54	239.18	238.31
<b>45.0</b>	214.62	208.84	204.67	201.03	197.80	196.66	196.46
<b>50.0</b>	168.47	164.23	159.12	156.29	153.80	152.26	151.92
<b>55.0</b>	123.26	119.56	116.53	114.11	112.02	110.95	109.80
<b>60.0</b>	84.03	82.08	80.00	78.79	77.04	76.03	75.62
<b>65.0</b>	55.24	54.50	53.69	52.82	51.94	51.54	51.27
<b>70.0</b>	34.99	34.85	34.72	34.18	33.91	33.51	33.37
<b>75.0</b>	19.85	20.25	20.32	20.32	19.98	19.78	19.65
<b>80.0</b>	9.49	9.96	10.29	10.43	10.36	10.23	10.23
<b>85.0</b>	1.62	1.82	1.88	1.75	1.62	1.55	1.62
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00



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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	111.50	N.A.	19.50
0-30	231.30	N.A.	40.40
0-40	360.87	N.A.	63.00
0-60	534.44	N.A.	93.20
0-80	572.01	N.A.	99.80
0-90	573.21	N.A.	100.00
10-90	544.15	N.A.	94.90
20-40	249.37	N.A.	43.50
20-50	356.82	N.A.	62.20
40-70	202.59	N.A.	35.30
60-80	37.57	N.A.	6.60
70-80	8.54	N.A.	1.50
80-90	1.21	N.A.	0.20
90-110	0.00	N.A.	0.00
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
110-180	0.00	N.A.	0.00
0-180	573.21	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	29.06
10-20	82.44
20-30	119.79
30-40	129.58
40-50	107.45
50-60	66.12
60-70	29.03
70-80	8.54
80-90	1.21
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

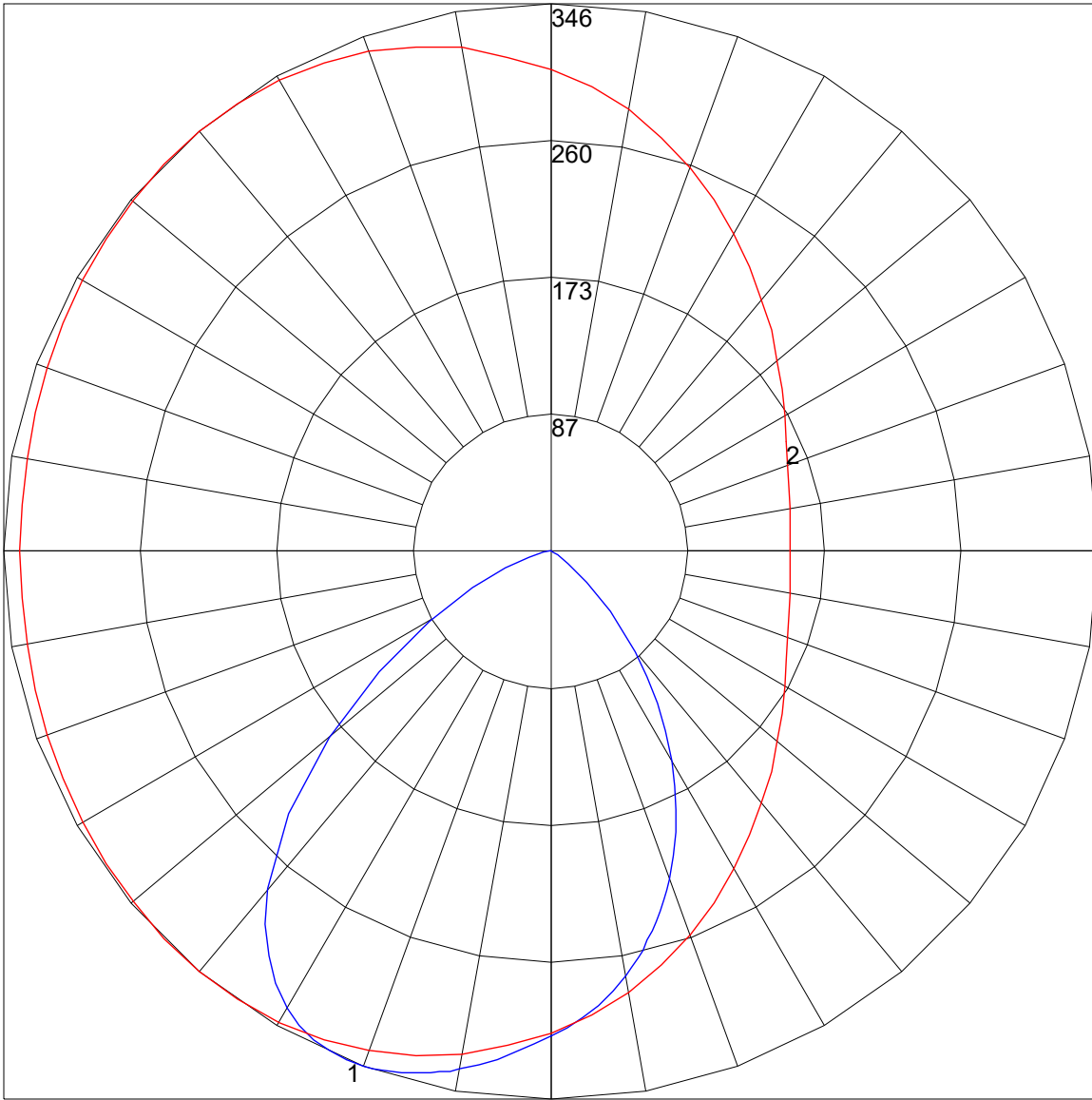
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	79
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	64	58	69	62	58	67	61	57	65	60	56	55
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44
8	67	55	48	42	66	55	47	42	53	47	42	52	46	42	51	46	42	40
9	63	51	44	39	62	51	43	39	49	43	38	48	43	38	48	42	38	36
10	60	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33

POLAR GRAPH



Maximum Candela = 346.02 Located At Horizontal Angle = 130, Vertical Angle = 22  
# 1 - Vertical Plane Through Horizontal Angles (130 - 310) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (22) (Through Max. Cd.)