

Report No: L121706519R01 **Issue Date:** 1/23/2018

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

Model Number: 804/L2-S-WD-40/WH/DIM1-8-1000-WD 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

Manufacturer:	Number Eight Lighting Company
Model Number:	804/L2-S-WD-40/WH/DIM1-8-1000-WD with FS-P-1-WH trim
Driver Model Number:	IntuitiveSystems ISD-701-350-15-D
Total Lumens:	351.81
Input Voltage (VAC/60Hz):	120.00
Input Current (Amp):	0.13
Input Power (W):	14.71
Input Power Factor:	0.98
Current ATHD @ 120V(%):	7%
Current ATHD @ 277V(%):	N/A
Efficacy:	24
Color Rendering Index (CRI):	98
Correlated Color Temperature (K):	3023
Chromaticity Coordinate x:	0.4323
Chromaticity Coordinate y:	0.3973
Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	0:35
Total Operating Time (Hours):	1:10

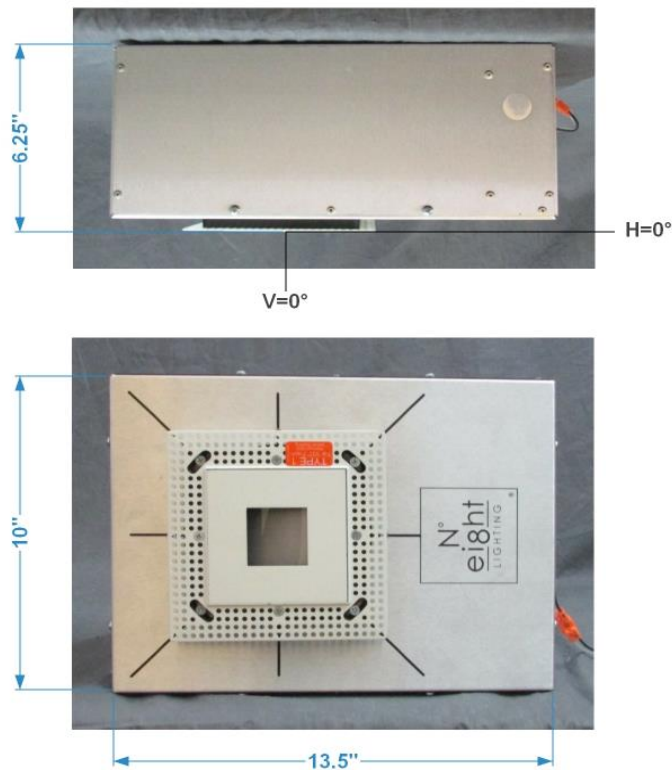
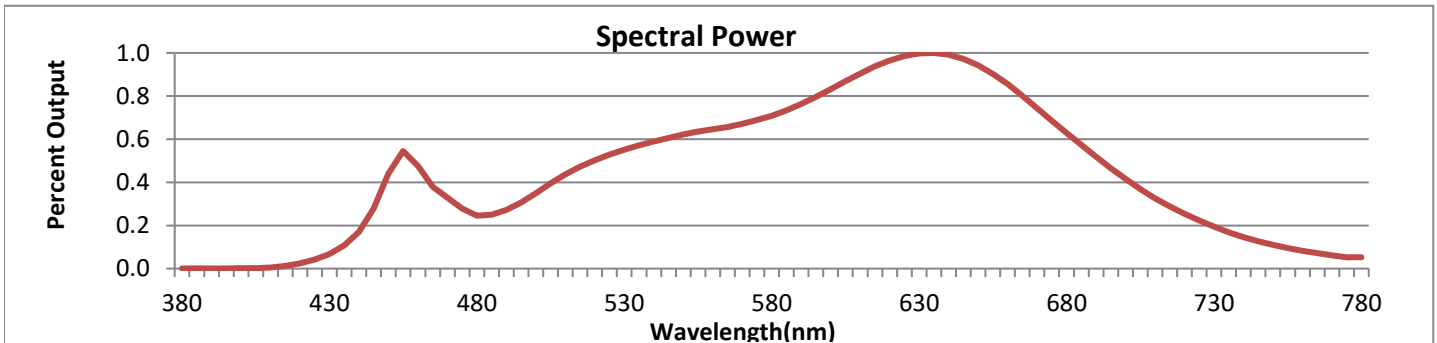


FIG. 1 LUMINAIRE

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



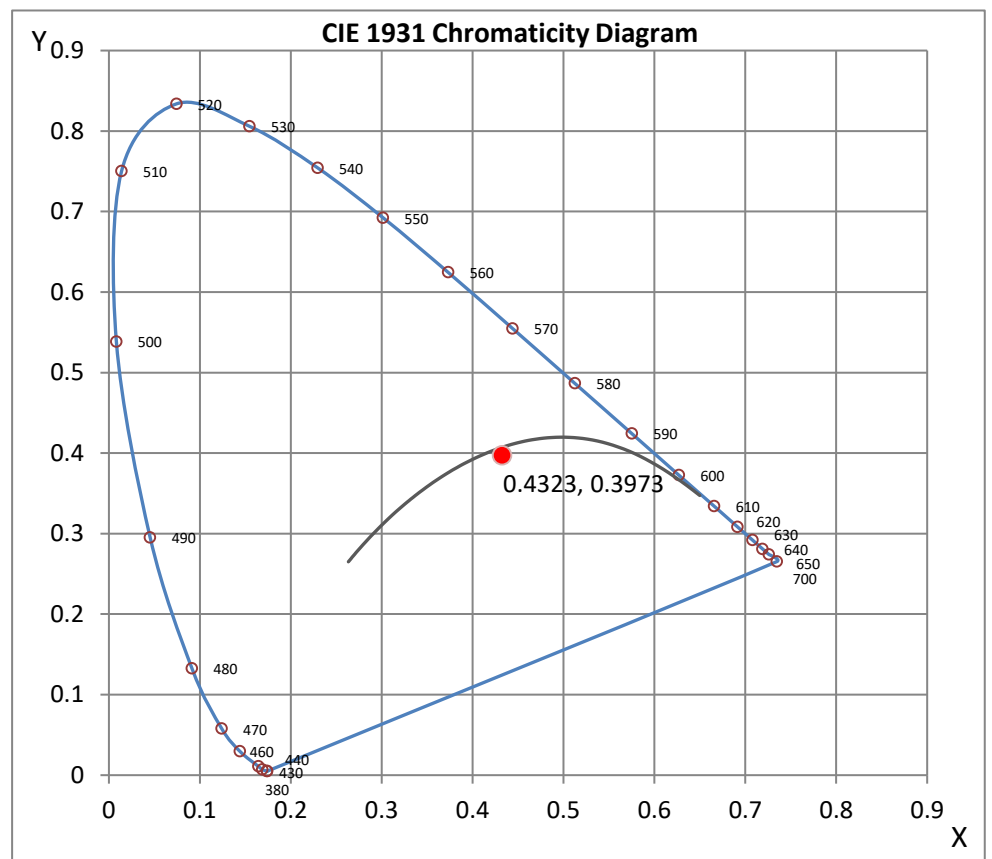
Wavelength	W/m ² nm	440	0.1703	510	0.4366	580	0.7077	650	0.9425	720	0.2545
380	0.0008	450	0.4391	520	0.5015	590	0.7627	660	0.8565	730	0.1944
390	0.0010	460	0.4760	530	0.5509	600	0.8313	670	0.7437	740	0.1459
400	0.0014	470	0.3280	540	0.5895	610	0.9045	680	0.6301	750	0.1102
410	0.0056	480	0.2449	550	0.6220	620	0.9656	690	0.5178	760	0.0826
420	0.0240	490	0.2720	560	0.6460	630	0.9979	700	0.4154	770	0.0618
430	0.0673	500	0.3498	570	0.6713	640	0.9914	710	0.3256	780	0.0532

CRI & CCT

x	0.4323
y	0.3973
u'	0.2505
v'	0.5180
CRI	97.90
CCT	3023
Duv	-0.00209

R Values

R1	99.19
R2	99.30
R3	96.53
R4	98.75
R5	98.81
R6	97.14
R7	97.30
R8	95.88
R9	90.77
R10	97.01
R11	97.11
R12	83.32
R13	99.39
R14	96.97



*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*



8165 E. Kaiser Blvd. Anaheim, CA 92808
www.lightlaboratory.com

Photometric Test Report

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L121706519R01.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L121706519R01
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUE DATE] 1/23/2018
[MANUFAC] Number Eight Lighting Company
[LUMCAT] 804/L2-S-WD-40/WH/DIM1-8-1000-WD 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-701-350-15-D
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
[INPUT] 120VAC, 14.71W
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	352
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	24
Total Luminaire Watts	14.71
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.68
Spacing Criterion (90-270)	1.32
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	4454	15918	68579
55	900	4483	41322
65	158	226	18491
75	0	0	2992
85	0	384	0

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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>
0.0	188.29	188.29	188.29	188.29	188.29	188.29	188.29	188.29	188.29	188.29
2.0	183.94	184.01	184.21	184.28	184.62	185.02	185.36	185.96	186.43	187.04
4.0	176.54	177.01	177.22	177.49	178.16	178.83	179.30	180.11	181.19	182.40
6.0	169.41	169.61	170.08	170.22	170.82	171.56	172.71	173.92	175.20	176.81
8.0	161.07	161.14	161.61	162.01	162.89	163.96	165.37	167.12	169.01	171.03
10.0	152.05	152.19	152.52	153.47	154.41	155.89	157.64	159.93	162.15	164.77
11.0	147.21	147.48	147.75	148.55	150.17	151.45	153.40	155.75	158.44	161.41
12.0	142.50	142.63	143.11	143.85	145.46	147.14	149.16	151.99	154.74	158.18
13.0	137.66	137.66	138.13	139.00	140.88	142.57	145.06	147.81	150.98	154.48
14.0	132.41	132.74	133.28	134.29	135.97	138.13	140.41	143.44	146.87	150.91
15.0	127.43	127.56	128.17	129.38	130.99	133.55	135.97	138.93	143.04	147.01
16.0	121.91	122.25	122.85	124.06	126.15	128.57	131.60	135.03	138.80	143.04
17.0	116.66	116.93	117.61	118.95	120.84	123.46	126.82	130.32	134.70	139.27
18.0	111.28	111.42	112.29	113.64	115.79	118.35	121.91	125.61	130.25	135.10
19.0	106.17	106.24	106.98	108.46	110.61	113.70	117.20	121.31	125.81	131.06
20.0	100.38	100.85	101.66	103.07	105.23	108.39	111.95	116.53	121.31	126.76
22.0	89.62	90.09	90.90	92.51	94.87	98.16	102.13	106.98	112.16	118.01
24.0	78.85	79.39	80.27	81.95	84.37	87.87	91.97	96.88	102.67	108.86
26.0	68.49	68.96	70.04	71.92	74.34	77.71	81.88	86.86	92.71	99.84
28.0	58.94	59.21	60.08	62.03	64.59	68.22	72.46	77.64	83.83	90.83
30.0	49.52	49.92	50.93	52.61	54.90	58.47	62.71	68.22	74.41	81.54
32.5	38.75	39.16	40.23	41.98	44.34	47.63	51.60	56.65	62.50	70.17
35.0	29.60	29.81	30.75	32.29	34.52	37.88	41.78	46.63	52.41	59.21
37.5	21.66	21.87	22.81	24.09	25.84	28.59	32.63	37.07	42.59	49.11
40.0	15.07	15.27	16.01	17.16	19.04	21.46	24.63	28.53	33.37	39.36
45.0	6.59	6.66	7.00	7.80	8.61	10.16	12.65	15.34	18.97	23.55
50.0	2.56	2.56	2.62	2.96	3.30	4.04	5.25	6.80	9.08	12.38
55.0	1.08	1.08	1.01	1.01	1.14	1.35	1.82	2.42	3.57	5.38
60.0	0.40	0.40	0.40	0.34	0.40	0.40	0.61	0.74	1.08	1.62
65.0	0.14	0.20	0.14	0.14	0.00	0.00	0.00	0.14	0.20	0.20
70.0	0.14	0.07	0.14	0.14	0.07	0.14	0.00	0.00	0.00	0.07
75.0	0.00	0.14	0.14	0.07	0.14	0.14	0.00	0.00	0.00	0.00
80.0	0.00	0.14	0.14	0.14	0.14	0.07	0.07	0.07	0.00	0.14
85.0	0.00	0.07	0.14	0.07	0.14	0.07	0.07	0.07	0.00	0.07
90.0	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>
0.0	188.29	188.29	188.29	188.29	188.29	188.29	188.29	188.29	188.29	188.29
2.0	187.85	188.25	188.86	189.39	189.86	190.40	190.94	191.48	192.22	192.56
4.0	183.47	184.55	185.69	186.77	187.71	188.86	190.20	191.34	192.29	193.30
6.0	178.56	180.51	182.26	184.01	185.90	187.38	189.12	190.74	192.49	194.10
8.0	173.38	175.80	178.43	180.58	183.27	185.83	188.12	190.40	192.49	194.84
10.0	167.86	170.76	173.99	177.22	180.58	183.81	187.04	189.80	192.69	195.45
11.0	164.63	168.27	171.90	175.53	178.97	182.87	186.30	189.46	192.83	195.92
12.0	161.67	165.37	169.61	173.72	177.89	181.86	185.49	189.06	192.56	196.05
13.0	158.45	162.89	167.26	171.56	175.80	180.58	184.62	188.65	192.42	196.05
14.0	154.95	159.72	164.63	169.41	174.19	179.17	183.74	188.25	192.62	196.46
15.0	151.58	156.49	161.94	167.12	172.30	177.89	182.80	187.51	191.95	196.59
16.0	147.88	154.00	159.12	164.63	170.42	176.34	181.79	186.90	191.48	196.12
17.0	144.25	149.90	156.16	162.28	168.20	174.79	180.51	186.03	191.08	196.26
18.0	140.55	146.87	153.20	159.59	166.05	172.84	179.10	185.22	191.01	196.12
19.0	136.85	143.91	149.97	156.76	163.83	170.62	177.55	183.94	190.00	195.72

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PHOTOMETRIC FILENAME : L121706519R01.IES

CANDELA TABULATION - (Cont.)

20.0	132.74	139.27	146.60	154.00	161.54	169.28	176.41	183.34	189.46	195.31
22.0	124.54	132.00	139.67	147.61	155.75	163.89	172.37	179.91	187.64	193.83
24.0	116.40	124.13	132.95	141.49	150.37	159.19	168.00	176.27	184.28	191.82
26.0	107.24	115.99	124.80	133.82	143.85	153.47	163.63	172.84	181.19	188.79
28.0	98.90	107.38	117.34	126.35	136.31	146.54	157.37	167.19	176.27	184.75
30.0	89.28	97.89	108.12	118.28	129.65	140.35	150.91	161.14	170.96	180.45
32.5	78.79	87.46	97.22	107.51	118.55	129.65	141.49	153.20	163.42	172.91
35.0	67.68	76.43	86.93	96.55	107.58	118.88	131.20	142.10	152.93	162.89
37.5	56.52	65.40	74.82	85.78	96.61	107.92	120.23	131.47	142.16	152.19
40.0	46.89	55.04	64.72	73.87	84.24	95.20	106.24	118.88	129.78	139.61
45.0	29.67	36.40	44.07	53.22	62.23	71.86	81.68	91.64	101.46	110.68
50.0	16.75	21.80	27.72	34.85	41.98	49.65	58.26	66.27	74.28	82.08
55.0	7.87	11.30	15.34	20.52	25.43	31.08	37.00	43.53	49.59	55.84
60.0	2.56	4.24	6.73	10.16	13.73	17.63	21.80	25.97	30.34	34.65
65.0	0.40	0.94	2.02	3.50	5.38	7.60	10.36	13.32	16.35	19.44
70.0	0.07	0.07	0.20	0.54	1.08	2.02	3.30	4.91	6.66	8.55
75.0	0.00	0.07	0.00	0.00	0.14	0.14	0.40	0.88	1.62	2.56
80.0	0.07	0.07	0.00	0.00	0.07	0.07	0.07	0.07	0.20	0.34
85.0	0.00	0.00	0.07	0.07	0.00	0.07	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	100	105	110	115	120	125	130	135	140	145
0.0	188.29	188.29	188.29	188.29	188.29	188.29	188.29	188.29	188.29	188.29
2.0	192.83	192.96	193.30	193.63	194.10	194.57	194.84	194.98	195.18	195.52
4.0	194.24	194.98	195.79	196.66	197.53	198.14	198.81	199.28	199.82	200.09
6.0	195.72	196.93	198.21	199.42	200.56	201.44	202.45	203.32	203.93	204.60
8.0	196.79	198.61	200.49	201.98	203.32	204.67	205.54	206.75	207.69	208.23
10.0	197.94	200.36	202.72	204.40	206.08	207.36	208.70	209.78	210.72	211.39
11.0	198.75	201.24	203.86	205.88	207.56	208.84	210.12	211.26	212.20	212.94
12.0	199.22	202.18	204.53	206.68	208.50	210.18	211.60	212.81	213.61	214.29
13.0	199.49	202.51	205.47	207.83	209.85	211.33	212.81	213.82	214.76	215.36
14.0	200.09	203.39	206.42	208.90	210.86	212.74	214.02	214.89	215.97	216.37
15.0	200.49	203.99	206.89	209.58	211.80	213.55	215.03	215.97	216.71	217.18
16.0	200.29	204.06	207.69	210.59	212.61	214.49	215.77	216.71	217.52	217.72
17.0	200.70	204.73	208.43	211.13	213.48	215.03	216.64	217.45	217.92	218.26
18.0	200.70	204.94	208.43	211.66	214.09	215.90	217.25	218.12	218.46	218.66
19.0	200.56	204.87	208.97	212.20	214.69	216.51	217.79	218.53	218.73	218.86
20.0	200.43	205.27	209.24	212.27	214.83	216.57	218.06	218.73	218.86	218.80
22.0	199.55	204.67	208.84	212.47	215.09	217.11	218.19	218.66	218.59	218.19
24.0	197.87	203.32	208.16	211.80	214.56	216.44	217.45	217.85	217.38	216.64
26.0	195.58	201.64	206.48	210.12	212.81	214.89	215.70	215.77	215.30	214.35
28.0	192.02	198.54	203.66	207.76	210.45	212.54	213.14	213.08	212.20	211.06
30.0	188.12	195.11	200.36	204.26	206.95	208.70	209.38	208.90	207.83	206.35
32.5	181.05	187.98	193.57	198.01	200.90	202.58	203.12	202.51	201.17	199.35
35.0	171.56	179.44	185.36	189.73	192.69	194.37	194.84	194.10	192.69	190.60
37.5	161.88	169.08	175.06	179.64	182.40	184.28	184.68	183.94	182.33	180.11
40.0	148.55	156.09	162.21	166.99	170.62	172.24	172.51	171.83	170.22	168.00
45.0	119.89	127.70	133.55	137.99	141.36	143.24	143.71	143.31	141.83	139.74
50.0	89.95	96.14	101.59	105.63	108.99	111.01	111.75	111.69	110.61	109.13
55.0	61.56	66.68	71.32	74.95	78.05	79.73	80.53	80.60	80.00	78.99
60.0	39.56	43.53	46.89	49.52	51.94	53.49	54.36	54.56	54.36	53.82
65.0	22.47	25.30	27.85	30.14	32.03	33.71	34.99	35.66	36.00	36.20
70.0	10.63	12.38	13.99	15.74	17.63	19.38	20.99	22.47	23.48	24.02
75.0	3.70	4.84	5.72	6.80	8.01	9.35	10.83	12.25	13.52	14.33

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L121706519R01.IES

CANDELA TABULATION - (Cont.)

80.0	0.61	0.81	1.21	1.68	2.09	2.83	3.57	4.58	5.58	6.53
85.0	0.00	0.14	0.14	0.14	0.14	0.27	0.34	0.47	0.61	0.67
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles

	150	155	160	165	170	175	180
0.0	188.29	188.29	188.29	188.29	188.29	188.29	188.29
2.0	195.79	196.05	196.46	196.59	197.06	197.20	197.13
4.0	200.70	201.44	201.57	201.84	202.18	202.31	202.38
6.0	205.00	205.54	205.94	206.55	206.95	207.02	206.68
8.0	208.84	209.17	209.85	210.25	210.52	210.65	210.59
10.0	211.87	212.34	212.81	213.14	213.48	213.48	213.55
11.0	213.41	213.82	214.09	214.49	214.49	214.76	214.76
12.0	214.69	215.16	215.30	215.43	215.70	215.90	215.97
13.0	215.83	216.17	216.37	216.37	216.57	216.78	216.78
14.0	216.78	216.91	216.91	217.25	217.32	217.38	217.45
15.0	217.52	217.58	217.65	217.72	217.85	217.79	217.99
16.0	217.85	217.99	217.99	217.99	217.79	217.99	217.85
17.0	218.46	218.32	218.19	218.12	217.99	217.99	217.85
18.0	218.66	218.39	218.19	218.12	217.92	217.79	218.12
19.0	218.53	218.39	218.19	217.85	217.65	217.38	217.31
20.0	218.46	218.12	217.58	217.31	217.05	216.71	216.64
22.0	217.38	216.71	216.04	215.43	215.09	214.69	214.62
24.0	215.77	214.76	213.82	213.01	212.34	212.00	211.66
26.0	213.01	211.73	210.45	209.38	208.57	208.03	207.90
28.0	209.38	207.69	206.08	204.87	203.99	203.25	203.05
30.0	204.67	202.85	200.97	199.42	198.41	197.60	197.13
32.5	197.33	194.91	192.83	191.34	190.13	189.12	188.92
35.0	188.05	185.69	183.41	181.66	180.11	179.23	178.97
37.5	177.62	175.13	172.64	170.56	168.94	168.00	167.66
40.0	165.51	162.41	160.13	158.18	156.70	155.69	155.42
45.0	137.45	135.03	132.81	130.79	129.38	128.30	127.97
50.0	107.24	105.02	103.01	101.26	99.84	98.90	98.63
55.0	77.51	75.83	74.34	73.00	71.99	71.12	70.91
60.0	53.02	52.28	51.27	50.53	49.79	49.32	49.25
65.0	36.06	35.79	35.46	35.19	34.85	34.58	34.58
70.0	24.29	24.42	24.36	24.29	24.15	23.95	23.82
75.0	14.87	15.21	15.27	15.21	15.14	15.00	14.94
80.0	7.00	7.33	7.60	7.54	7.40	7.40	7.13
85.0	0.81	0.94	0.94	0.81	0.94	0.81	0.81
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	69.30	N.A.	19.70
0-30	143.38	N.A.	40.80
0-40	222.80	N.A.	63.30
0-60	326.99	N.A.	92.90
0-80	351.06	N.A.	99.80
0-90	351.81	N.A.	100.00
10-90	333.72	N.A.	94.90
20-40	153.50	N.A.	43.60
20-50	218.37	N.A.	62.10
40-70	122.17	N.A.	34.70
60-80	24.07	N.A.	6.80
70-80	6.10	N.A.	1.70
80-90	0.74	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	351.81	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	18.09
10-20	51.22
20-30	74.07
30-40	79.42
40-50	64.87
50-60	39.32
60-70	17.98
70-80	6.10
80-90	0.74
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

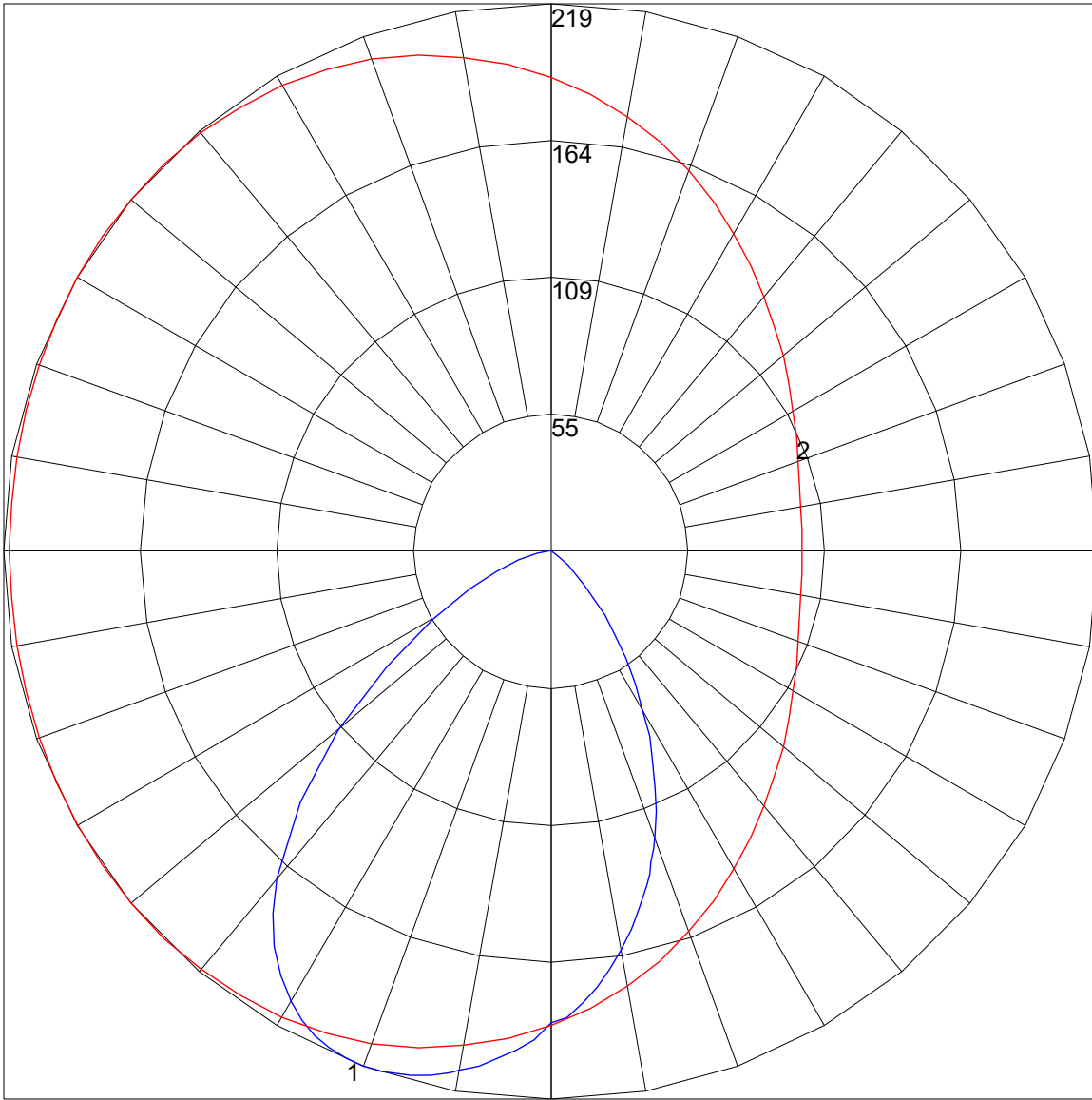
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78
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	47	57	51	46	55	50	46	44
8	67	55	48	43	66	55	48	43	54	47	42	52	46	42	51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37
10	60	48	40	36	58	47	40	36	46	40	35	45	39	35	44	39	35	34

POLAR GRAPH



Maximum Candela = 218.86 Located At Horizontal Angle = 140, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (140 - 320) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)