

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P334711

Luminaire Tested: **S123IW-S755U935-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123IW-S755U935-4F0-1E-UDD-1
Description: DEFINE 3 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 755 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2255.9 lumens
Efficiency: N/A
Efficacy: 161.1 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

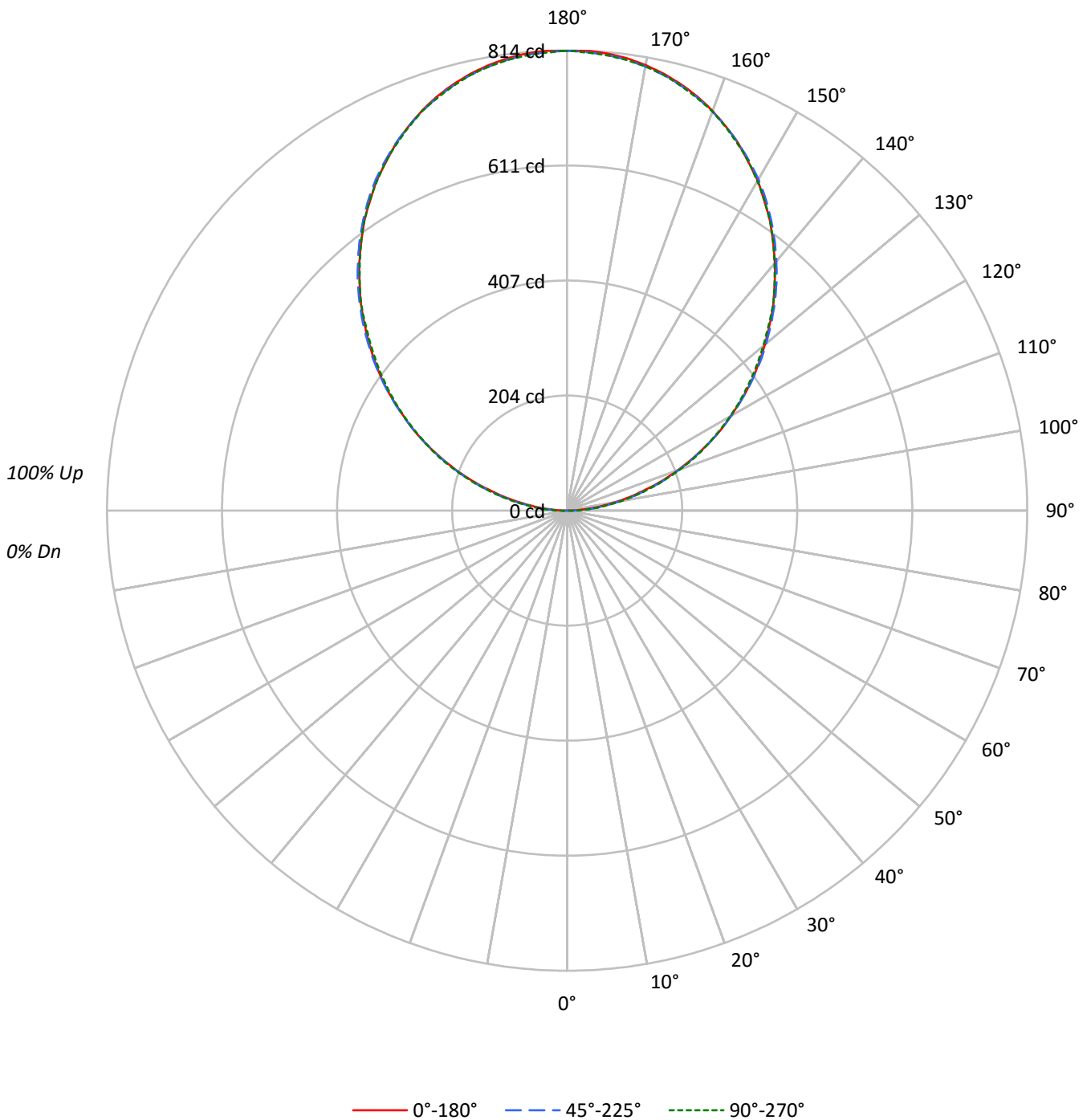
Input Watts (W): 14
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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
RCR																		
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	1.7	0.1
90°-100°	52.4	2.3
100°-110°	158.5	7.0
110°-120°	269.8	12.0
120°-130°	355.0	15.7
130°-140°	399.0	17.7
140°-150°	392.3	17.4
150°-160°	330.3	14.6
160°-170°	219.9	9.7
170°-180°	77.0	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.7	0.1
90°-120°	480.7	21.3
90°-150°	1627.0	72.1
90°-180°	2254.0	99.9
0°-180°	2255.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	1	7	15	18	19	3
95°	38	42	47	50	50	42
105°	144	145	151	151	152	154
115°	272	274	272	273	272	269
125°	398	399	398	396	393	354
135°	516	520	519	516	515	397
145°	626	627	629	628	626	391
155°	716	716	717	720	715	330
165°	780	778	778	782	778	220
175°	812	809	809	813	808	77
180°	814	814	814	814	814	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.6	7.0	15.3	17.9	19.2
92.5°	19.2	23.0	26.8	28.8	27.5
95°	37.7	42.2	47.3	49.8	49.8
97.5°	62.0	65.2	69.0	72.2	71.6
100°	86.9	90.7	93.9	95.9	97.1
102.5°	115.7	117.6	122.1	124.0	123.3
105°	143.8	145.1	150.8	150.8	152.1
107.5°	177.0	177.7	180.2	182.1	181.5
110°	207.7	209.0	210.3	212.8	211.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	239.7	240.3	240.3	243.5	243.5
115°	271.6	273.5	272.2	272.9	272.2
117.5°	304.2	304.8	303.6	303.6	301.6
120°	334.2	338.1	334.9	334.2	333.0
122.5°	365.5	368.1	366.8	364.9	363.0
125°	397.5	399.4	398.1	395.6	393.0
127.5°	426.9	430.7	429.5	425.6	423.1
130°	456.3	461.4	459.5	456.9	452.5
132.5°	485.7	490.8	489.5	486.3	483.1
135°	515.7	519.6	518.9	516.4	515.1
137.5°	543.2	546.4	548.3	545.1	543.2
140°	572.0	575.2	575.8	575.2	570.7
142.5°	598.2	601.4	602.6	602.0	598.8
145°	625.6	626.9	628.8	628.2	625.6
147.5°	649.3	651.9	653.8	653.8	649.9
150°	674.2	675.5	676.8	676.8	672.9
152.5°	694.7	696.6	697.2	698.5	695.3
155°	716.4	716.4	717.0	719.6	715.1
157.5°	734.9	734.3	734.9	737.5	733.7
160°	752.2	750.9	750.9	754.1	751.5
162.5°	767.5	765.6	766.2	769.4	765.0
165°	780.3	778.4	778.4	782.2	777.7
167.5°	791.2	788.6	789.3	793.1	789.3
170°	800.1	797.6	797.6	802.0	797.6
172.5°	807.1	804.6	804.6	808.4	803.9
175°	811.6	809.1	809.1	812.9	808.4
177.5°	814.2	811.6	811.6	815.5	811.0
180°	813.5	813.5	813.5	813.5	813.5

(END OF REPORT)