

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: P334716

Luminaire Tested: **S123IW-S755U940-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334716
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-S755U940-4F0-1E-UDD-1
Description: DEFINE 3 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 755 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2336.4 lumens
Efficiency: N/A
Efficacy: 166.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

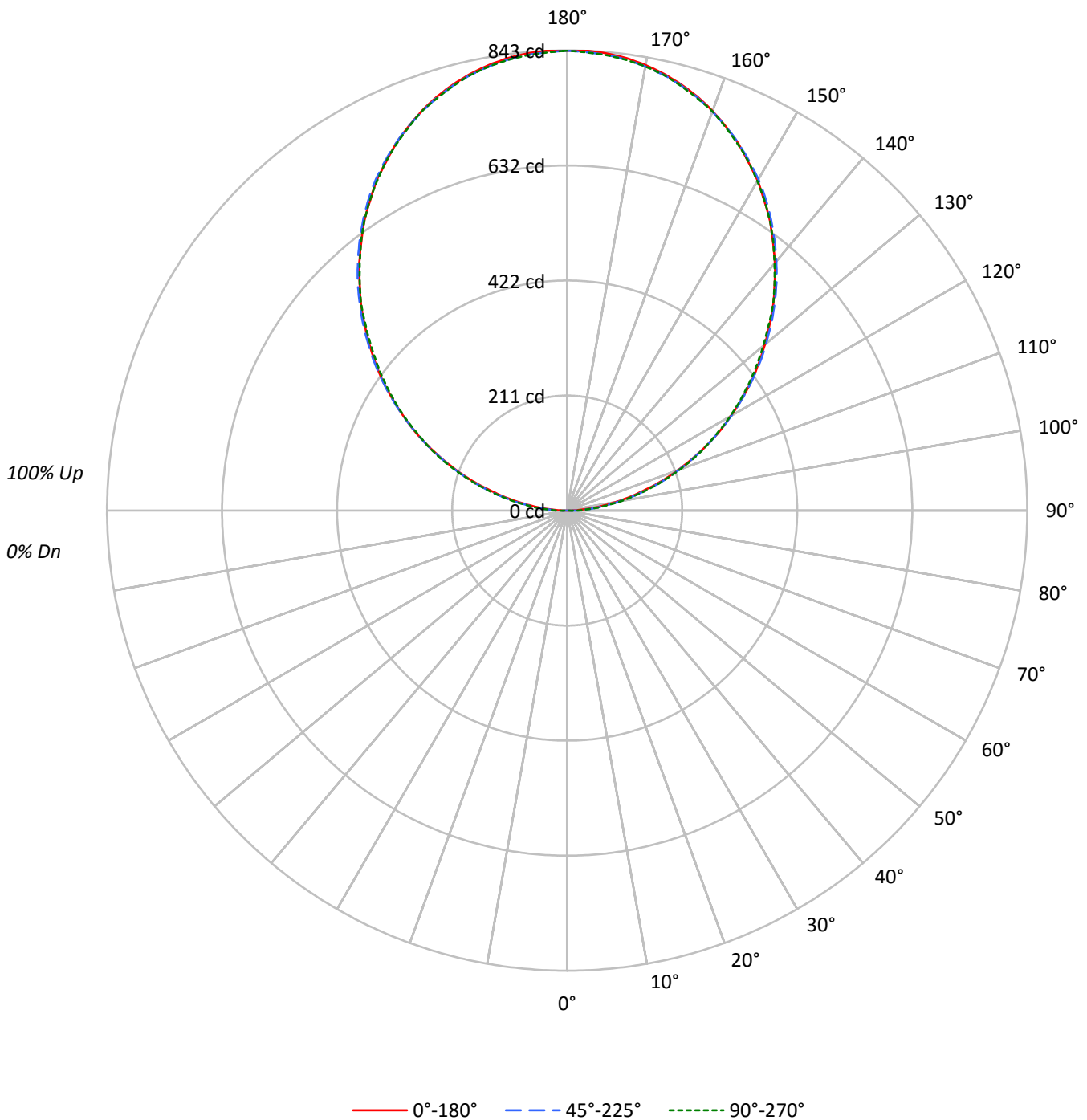
Input Watts (W): 14
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334716

CATALOG NUMBER: S123IW-S755U940-4F0-1E-UDD-1

Luminous Intensity Polar Plot





TEST NUMBER: P334716

CATALOG NUMBER: S123IW-S755U940-4F0-1E-UDD-1

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



TEST NUMBER: P334716

CATALOG NUMBER: S123IW-S755U940-4F0-1E-UDD-1

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°	1.8	0.1
90°-100°	54.2	2.3
100°-110°	164.2	7.0
110°-120°	279.5	12.0
120°-130°	367.7	15.7
130°-140°	413.3	17.7
140°-150°	406.3	17.4
150°-160°	342.0	14.6
160°-170°	227.7	9.7
170°-180°	79.7	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.8	0.1
90°-120°	497.9	21.3
90°-150°	1685.1	72.1
90°-180°	2335.0	99.9
0°-180°	2336.4	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	16	18	20	3
95°	39	44	49	52	52	43
105°	149	150	156	156	158	159
115°	281	283	282	283	282	278
125°	412	414	412	410	407	367
135°	534	538	537	535	534	412
145°	648	649	651	651	648	405
155°	742	742	743	745	741	342
165°	808	806	806	810	806	228
175°	841	838	838	842	837	80
180°	843	843	843	843	843	



TEST NUMBER: P334716

CATALOG NUMBER: S123IW-S755U940-4F0-1E-UDD-1

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°	0.7	7.3	15.9	18.5	19.9
92.5°	19.9	23.8	27.8	29.8	28.5
95°	39.0	43.7	49.0	51.6	51.6
97.5°	64.2	67.5	71.5	74.8	74.1
100°	90.0	94.0	97.3	99.3	100.6
102.5°	119.8	121.8	126.4	128.4	127.7
105°	148.9	150.2	156.2	156.2	157.5
107.5°	183.3	184.0	186.6	188.6	188.0
110°	215.1	216.4	217.8	220.4	219.1



TEST NUMBER: P334716

CATALOG NUMBER: S123IW-S755U940-4F0-1E-UDD-1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	248.2	248.9	248.9	252.2	252.2
115°	281.3	283.3	282.0	282.6	282.0
117.5°	315.0	315.7	314.4	314.4	312.4
120°	346.2	350.1	346.8	346.2	344.8
122.5°	378.6	381.2	379.9	377.9	375.9
125°	411.7	413.7	412.3	409.7	407.0
127.5°	442.1	446.1	444.8	440.8	438.2
130°	472.6	477.9	475.9	473.2	468.6
132.5°	503.0	508.3	507.0	503.7	500.4
135°	534.1	538.1	537.4	534.8	533.5
137.5°	562.6	565.9	567.9	564.6	562.6
140°	592.4	595.7	596.3	595.7	591.0
142.5°	619.5	622.8	624.1	623.5	620.2
145°	648.0	649.3	651.3	650.6	648.0
147.5°	672.5	675.1	677.1	677.1	673.1
150°	698.3	699.6	700.9	700.9	696.9
152.5°	719.4	721.4	722.1	723.4	720.1
155°	741.9	741.9	742.6	745.3	740.6
157.5°	761.1	760.5	761.1	763.8	759.8
160°	779.0	777.7	777.7	781.0	778.4
162.5°	794.9	792.9	793.6	796.9	792.3
165°	808.1	806.2	806.2	810.1	805.5
167.5°	819.4	816.7	817.4	821.4	817.4
170°	828.7	826.0	826.0	830.6	826.0
172.5°	835.9	833.3	833.3	837.3	832.6
175°	840.6	837.9	837.9	841.9	837.3
177.5°	843.2	840.6	840.6	844.5	839.9
180°	842.6	842.6	842.6	842.6	842.6

(END OF REPORT)