

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: P334697

Luminaire Tested: **S123IW-S1030U840-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334697
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-S1030U840-4F0-1E-UDD-1
Description: DEFINE 3 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 1030 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3611.5 lumens
Efficiency: N/A
Efficacy: 184.3 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

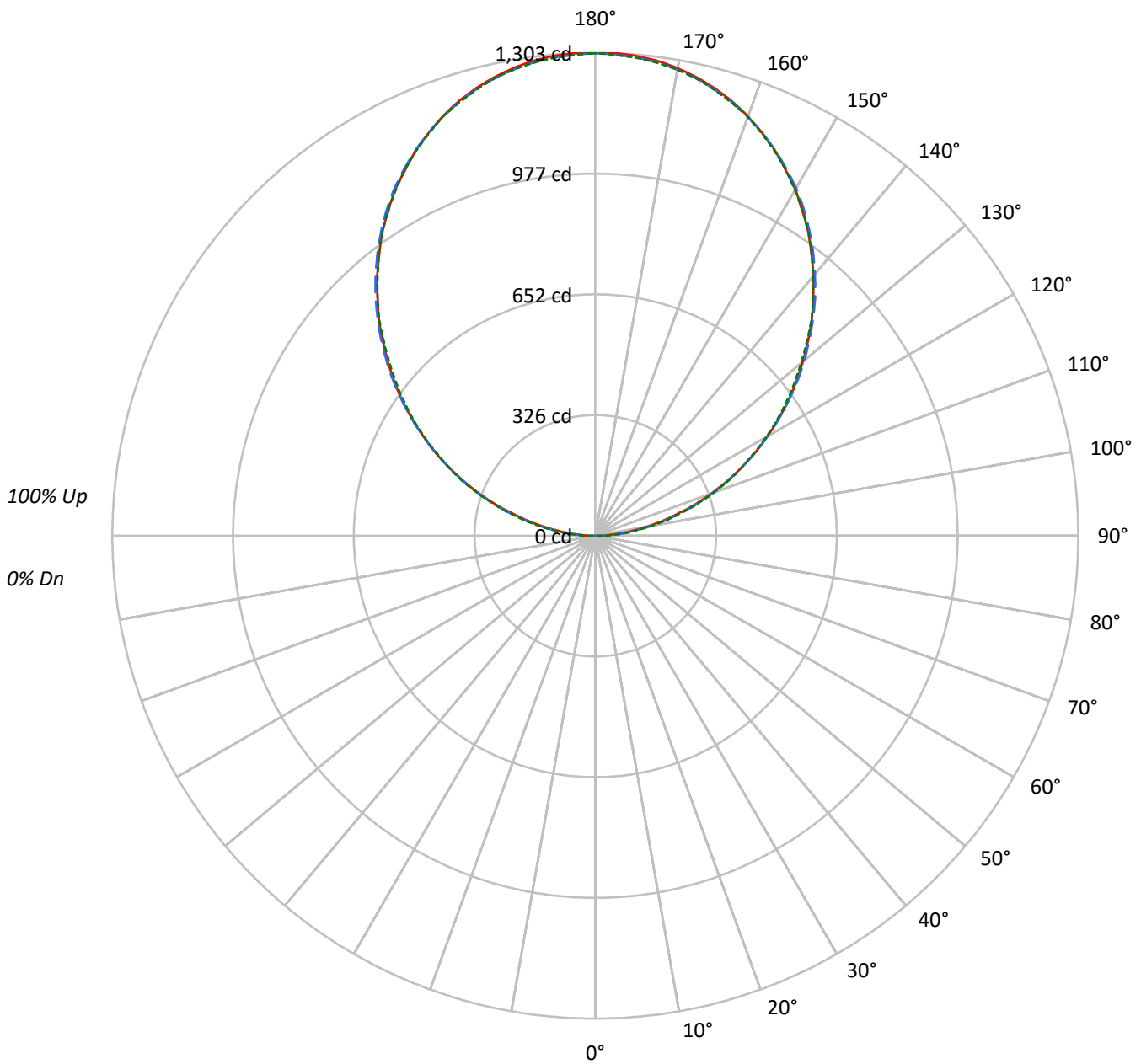
Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270°



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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°	2.8	0.1
90°-100°	83.8	2.3
100°-110°	253.8	7.0
110°-120°	432.0	12.0
120°-130°	568.3	15.7
130°-140°	638.8	17.7
140°-150°	628.0	17.4
150°-160°	528.7	14.6
160°-170°	352.0	9.7
170°-180°	123.3	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.8	0.1
90°-120°	769.6	21.3
90°-150°	2604.8	72.1
90°-180°	3609.0	99.9
0°-180°	3611.5	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	11	25	29	31	4
95°	60	68	76	80	80	66
105°	230	232	242	242	244	246
115°	435	438	436	437	436	430
125°	636	639	637	633	629	568
135°	826	832	831	827	825	636
145°	1002	1004	1007	1006	1002	626
155°	1147	1147	1148	1152	1145	528
165°	1249	1246	1246	1252	1245	352
175°	1299	1295	1295	1301	1294	123
180°	1302	1302	1302	1302	1302	



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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°	1.0	11.3	24.6	28.6	30.7
92.5°	30.7	36.8	43.0	46.0	44.0
95°	60.4	67.5	75.7	79.8	79.8
97.5°	99.2	104.4	110.5	115.6	114.6
100°	139.1	145.3	150.4	153.5	155.5
102.5°	185.2	188.3	195.4	198.5	197.5
105°	230.2	232.2	241.5	241.5	243.5
107.5°	283.4	284.4	288.5	291.6	290.6
110°	332.5	334.6	336.6	340.7	338.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	383.7	384.7	384.7	<i>389.8</i>	389.8
115°	434.8	437.9	435.8	<i>436.9</i>	435.8
117.5°	487.0	488.0	486.0	<i>486.0</i>	482.9
120°	535.1	541.2	536.1	<i>535.1</i>	533.0
122.5°	585.2	589.3	587.3	<i>584.2</i>	581.1
125°	636.4	639.4	637.4	<i>633.3</i>	629.2
127.5°	683.4	689.6	687.5	<i>681.4</i>	677.3
130°	730.5	738.7	735.6	<i>731.5</i>	724.4
132.5°	777.6	785.7	783.7	<i>778.6</i>	773.5
135°	825.6	831.8	830.8	<i>826.7</i>	824.6
137.5°	869.6	874.8	877.8	<i>872.7</i>	869.6
140°	915.7	920.8	921.8	<i>920.8</i>	913.6
142.5°	957.6	962.7	964.8	<i>963.8</i>	958.7
145°	1001.6	1003.7	1006.7	<i>1005.7</i>	1001.6
147.5°	1039.5	1043.6	1046.6	<i>1046.6</i>	1040.5
150°	1079.4	1081.4	1083.5	<i>1083.5</i>	1077.3
152.5°	1112.1	1115.2	1116.2	<i>1118.3</i>	1113.1
155°	1146.9	1146.9	1147.9	<i>1152.0</i>	1144.9
157.5°	1176.6	1175.6	1176.6	<i>1180.7</i>	1174.5
160°	1204.2	1202.2	1202.2	<i>1207.3</i>	1203.2
162.5°	1228.8	1225.7	1226.7	<i>1231.8</i>	1224.7
165°	1249.2	1246.1	1246.1	<i>1252.3</i>	1245.1
167.5°	1266.6	1262.5	1263.5	<i>1269.7</i>	1263.5
170°	1280.9	1276.8	1276.8	<i>1284.0</i>	1276.8
172.5°	1292.2	1288.1	1288.1	<i>1294.2</i>	1287.1
175°	1299.3	1295.3	1295.3	<i>1301.4</i>	1294.2
177.5°	<i>1303.4</i>	<i>1299.3</i>	<i>1299.3</i>	<i>1305.5</i>	<i>1298.3</i>
180°	1302.4	1302.4	1302.4	<i>1302.4</i>	1302.4

(END OF REPORT)