

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: P334689

Luminaire Tested: **S123IW-S1535U830-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334689
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-S1535U830-4F0-1E-UDD-1
Description: DEFINE 3 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 1535 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5017.1 lumens
Efficiency: N/A
Efficacy: 164.0 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

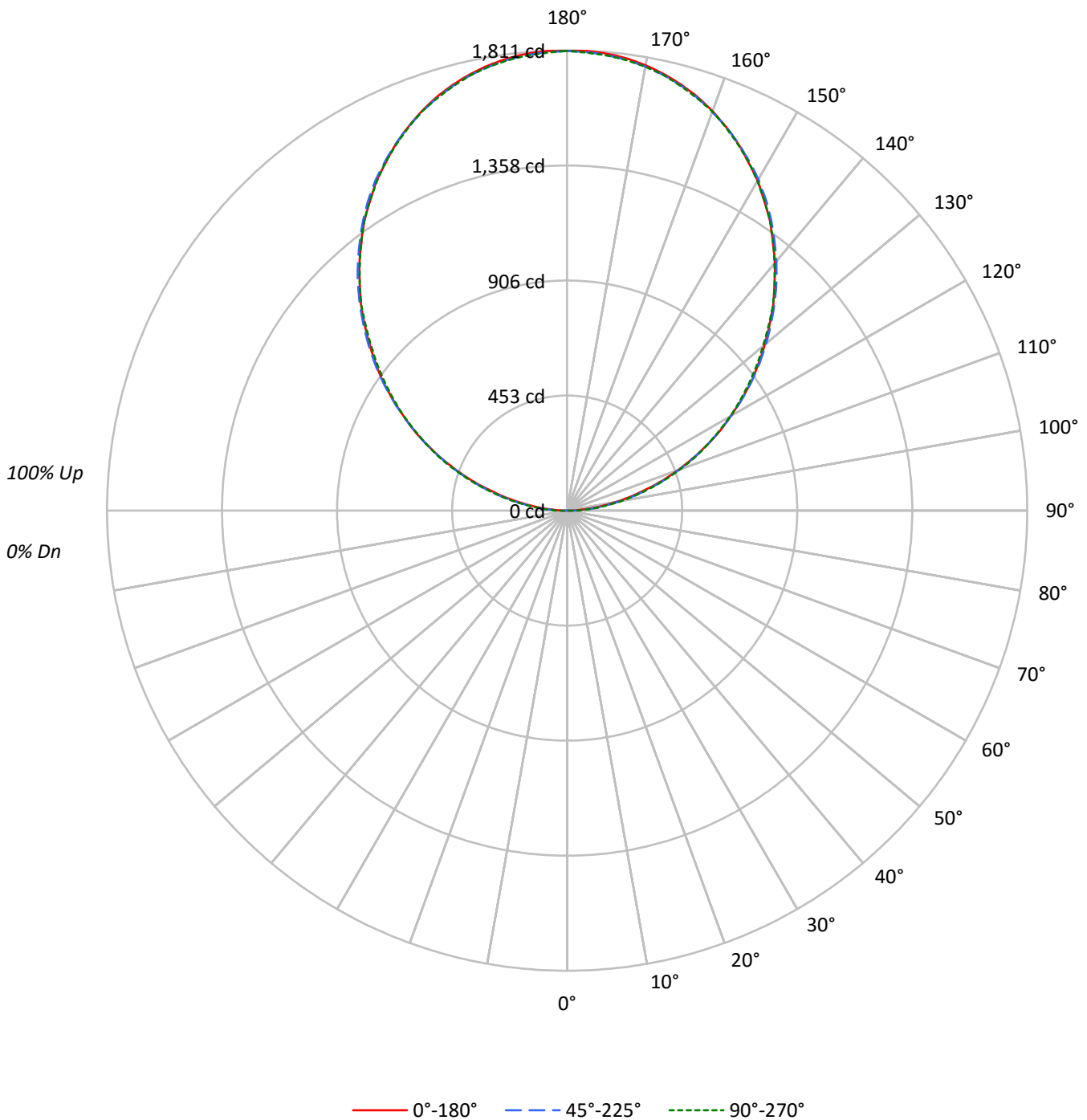
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334689

CATALOG NUMBER: S123IW-S1535U830-4F0-1E-UDD-1

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°	3.8	0.1
90°-100°	116.5	2.3
100°-110°	352.5	7.0
110°-120°	600.1	12.0
120°-130°	789.5	15.7
130°-140°	887.4	17.7
140°-150°	872.5	17.4
150°-160°	734.5	14.6
160°-170°	489.0	9.7
170°-180°	171.2	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.8	0.1
90°-120°	1069.1	21.3
90°-150°	3618.6	72.1
90°-180°	5013.0	99.9
0°-180°	5017.1	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	16	34	40	43	6
95°	84	94	105	111	111	92
105°	320	323	335	335	338	342
115°	604	608	606	607	606	598
125°	884	888	886	880	874	788
135°	1147	1156	1154	1148	1146	884
145°	1392	1394	1399	1397	1392	869
155°	1593	1593	1595	1600	1590	733
165°	1735	1731	1731	1740	1730	489
175°	1805	1799	1799	1808	1798	171
180°	1809	1809	1809	1809	1809	



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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°	1.4	15.6	34.1	39.8	42.6
92.5°	42.6	51.2	59.7	64.0	61.1
95°	83.9	93.8	105.2	110.9	110.9
97.5°	137.9	145.0	153.5	160.6	159.2
100°	193.3	201.8	208.9	213.2	216.0
102.5°	257.3	261.5	271.5	275.7	274.3
105°	319.8	322.6	335.4	335.4	338.3
107.5°	393.7	395.1	400.8	405.1	403.7
110°	461.9	464.8	467.6	473.3	470.5



TEST NUMBER: P334689

CATALOG NUMBER: S123IW-S1535U830-4F0-1E-UDD-1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	533.0	534.4	534.4	541.5	541.5
115°	604.1	608.3	605.5	606.9	605.5
117.5°	676.5	678.0	675.1	675.1	670.9
120°	743.3	751.9	744.8	743.3	740.5
122.5°	813.0	818.7	815.8	811.6	807.3
125°	884.1	888.3	885.5	879.8	874.1
127.5°	949.4	958.0	955.1	946.6	940.9
130°	1014.8	1026.2	1021.9	1016.2	1006.3
132.5°	1080.2	1091.6	1088.7	1081.6	1074.5
135°	1147.0	1155.5	1154.1	1148.4	1145.6
137.5°	1208.1	1215.2	1219.5	1212.4	1208.1
140°	1272.1	1279.2	1280.6	1279.2	1269.2
142.5°	1330.3	1337.4	1340.3	1338.9	1331.8
145°	1391.5	1394.3	1398.6	1397.1	1391.5
147.5°	1444.0	1449.7	1454.0	1454.0	1445.5
150°	1499.5	1502.3	1505.2	1505.2	1496.6
152.5°	1545.0	1549.2	1550.6	1553.5	1546.4
155°	1593.3	1593.3	1594.7	1600.4	1590.4
157.5°	1634.5	1633.1	1634.5	1640.2	1631.7
160°	1672.9	1670.0	1670.0	1677.1	1671.5
162.5°	1707.0	1702.7	1704.1	1711.2	1701.3
165°	1735.4	1731.1	1731.1	1739.7	1729.7
167.5°	1759.6	1753.9	1755.3	1763.8	1755.3
170°	1779.5	1773.8	1773.8	1783.7	1773.8
172.5°	1795.1	1789.4	1789.4	1797.9	1788.0
175°	1805.1	1799.4	1799.4	1807.9	1797.9
177.5°	1810.7	1805.1	1805.1	1813.6	1803.6
180°	1809.3	1809.3	1809.3	1809.3	1809.3

(END OF REPORT)