

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: P334759

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5)
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
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS
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: 5785.8 lumens
Efficiency: N/A
Efficacy: 189.1 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

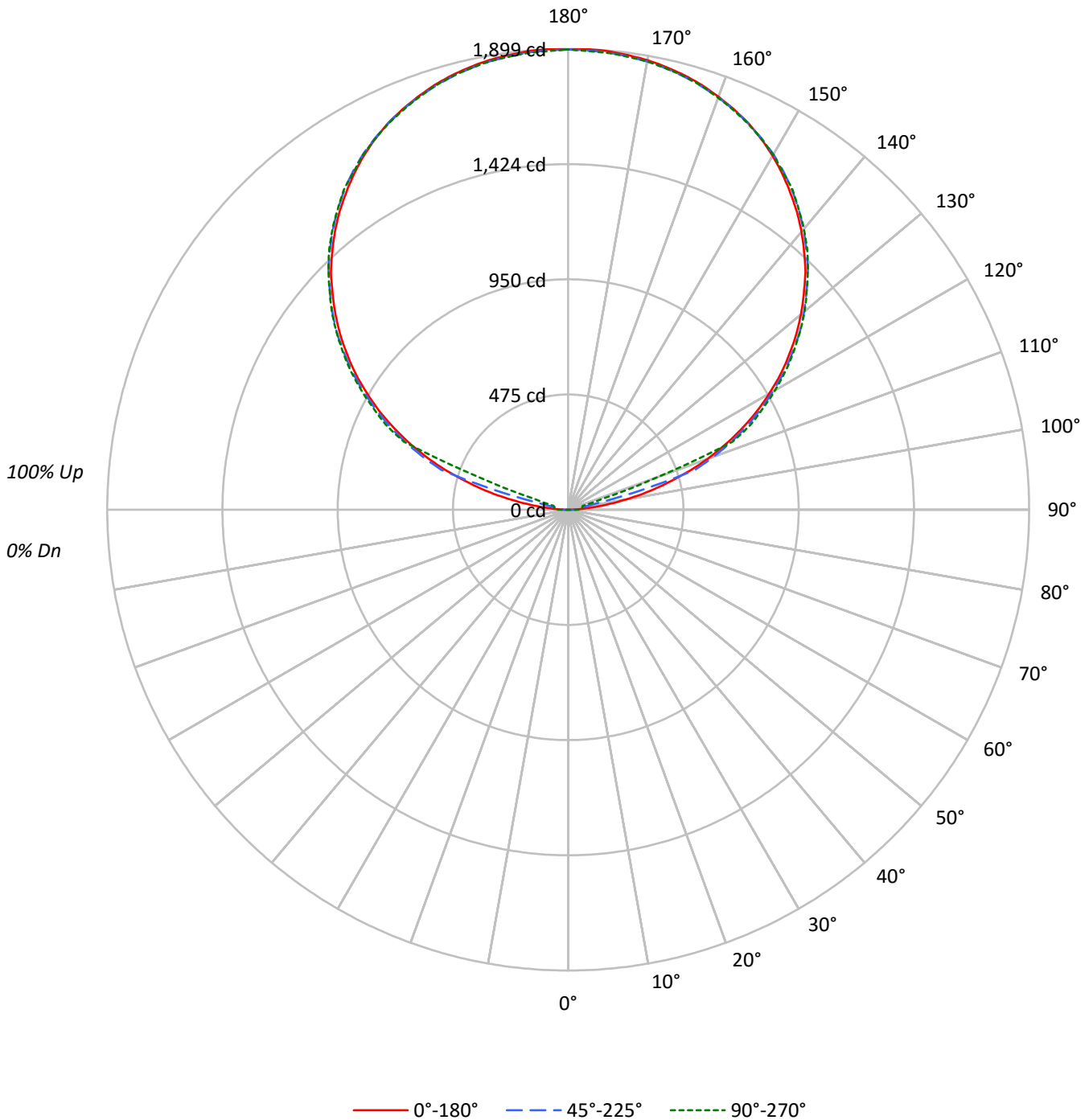
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3.8	0.1
90°-100°	66.9	1.2
100°-110°	323.4	5.6
110°-120°	792.4	13.7
120°-130°	1005.9	17.4
130°-140°	1074.6	18.6
140°-150°	1004.9	17.4
150°-160°	810.5	14.0
160°-170°	523.1	9.0
170°-180°	180.3	3.1
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°	1182.7	20.4
90°-150°	4268.2	73.8
90°-180°	5782.0	99.9
0°-180°	5785.8	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	42	5
95°	86	28	44	54	54	103
105°	420	435	309	59	62	445
115°	788	796	809	823	828	778
125°	1110	1122	1127	1130	1133	992
135°	1382	1391	1396	1401	1396	1064
145°	1595	1605	1608	1611	1611	999
155°	1757	1754	1756	1763	1754	810
165°	1853	1849	1847	1859	1849	524
175°	1897	1890	1891	1901	1890	181
180°	1897	1897	1897	1897	1897	



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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	15.5	33.8	39.5	42.3
92.5°	32.4	24.0	36.6	46.5	47.9
95°	86.0	28.2	43.7	53.5	53.5
97.5°	156.4	117.0	45.1	56.4	57.8
100°	238.1	266.3	46.5	57.8	59.2
102.5°	331.1	349.5	104.3	57.8	60.6
105°	419.9	435.4	308.6	59.2	62.0
107.5°	514.3	527.0	548.1	331.1	146.5
110°	608.7	620.0	635.5	589.0	387.5



TEST NUMBER: P334759

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	698.9	708.8	724.3	737.0	734.1
115°	787.7	796.1	808.8	822.9	828.5
117.5°	875.0	884.9	892.0	903.2	904.6
120°	955.4	968.0	972.3	983.5	983.5
122.5°	1037.1	1047.0	1052.6	1059.6	1061.0
125°	1110.4	1121.6	1127.3	1130.1	1132.9
127.5°	1183.6	1194.9	1202.0	1206.2	1203.4
130°	1251.3	1262.5	1268.2	1273.8	1271.0
132.5°	1316.1	1327.4	1331.6	1337.2	1333.0
135°	1382.3	1390.8	1396.4	1400.6	1396.4
137.5°	1438.7	1449.9	1452.8	1459.8	1457.0
140°	1495.0	1503.5	1507.7	1513.4	1510.5
142.5°	1547.2	1555.6	1559.9	1564.1	1559.9
145°	1595.1	1604.9	1607.8	1610.6	1610.6
147.5°	1641.6	1648.6	1651.4	1654.3	1647.2
150°	1683.9	1688.1	1690.9	1693.7	1689.5
152.5°	1721.9	1723.3	1724.7	1730.4	1723.3
155°	1757.1	1754.3	1755.7	1762.8	1754.3
157.5°	1785.3	1785.3	1783.9	1792.4	1781.1
160°	1810.7	1809.3	1807.9	1816.3	1806.4
162.5°	1834.6	1830.4	1829.0	1838.9	1830.4
165°	1852.9	1848.7	1847.3	1858.6	1848.7
167.5°	1868.4	1862.8	1862.8	1874.1	1862.8
170°	1881.1	1875.5	1875.5	1886.8	1875.5
172.5°	1889.6	1882.5	1883.9	1895.2	1882.5
175°	1896.6	1889.6	1891.0	1900.9	1889.6
177.5°	1899.4	1892.4	1893.8	1905.1	1891.0
180°	1896.6	1896.6	1896.6	1896.6	1896.6

(END OF REPORT)