

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: P334694

Luminaire Tested: **S123IW-S1535U835-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334694
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-S1535U835-4F0-1E-UDD-1
Description: DEFINE 3 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 1535 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5323.0 lumens
Efficiency: N/A
Efficacy: 174.0 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

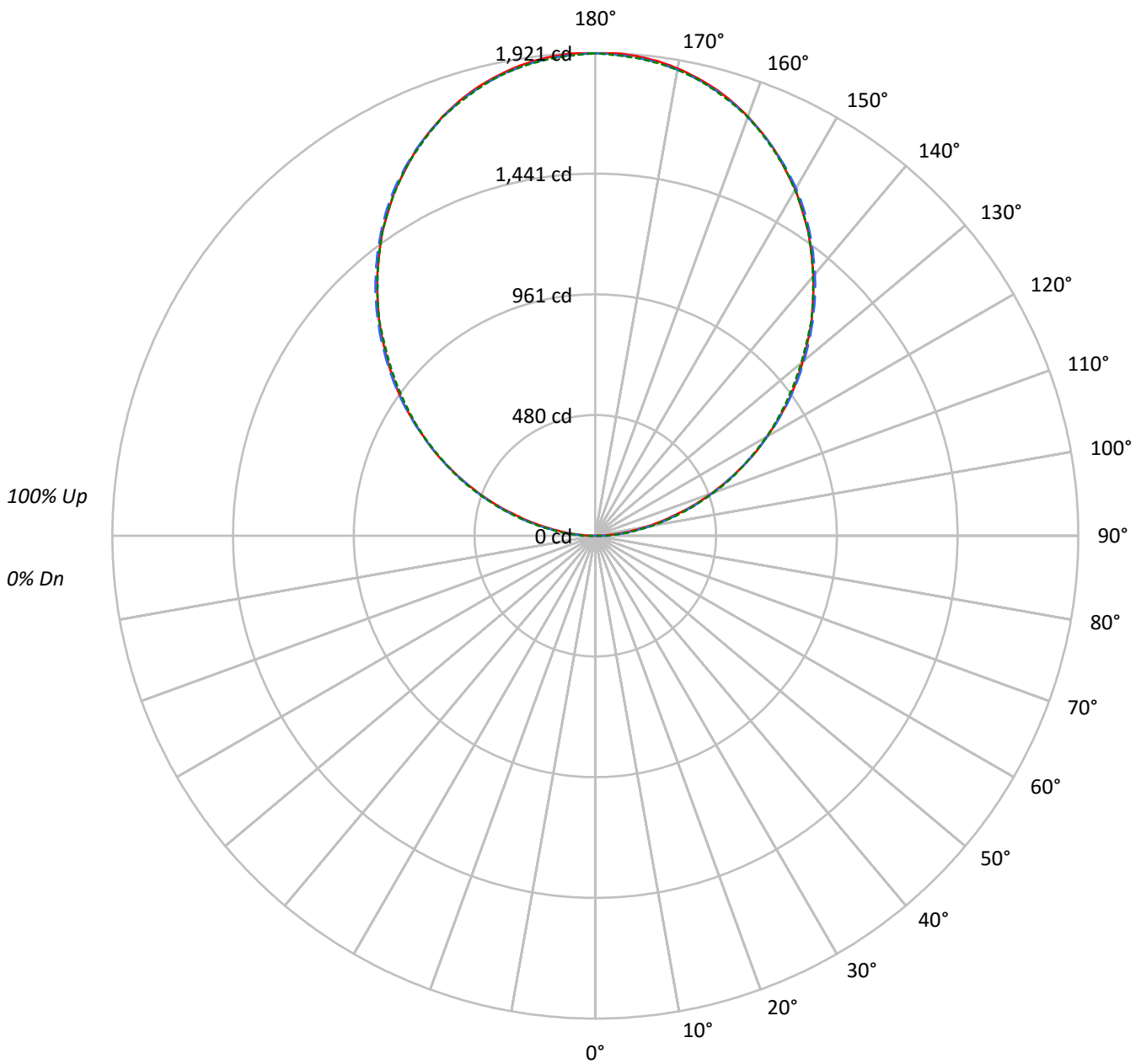
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4.1	0.1
90°-100°	123.6	2.3
100°-110°	374.0	7.0
110°-120°	636.7	12.0
120°-130°	837.6	15.7
130°-140°	941.5	17.7
140°-150°	925.6	17.4
150°-160°	779.3	14.6
160°-170°	518.8	9.7
170°-180°	181.7	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	4.1	0.1
90°-120°	1134.3	21.3
90°-150°	3839.2	72.1
90°-180°	5319.0	99.9
0°-180°	5323.0	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°	2	17	36	42	45	7
95°	89	100	112	118	118	98
105°	339	342	356	356	359	363
115°	641	645	642	644	642	634
125°	938	942	940	933	927	836
135°	1217	1226	1224	1218	1215	938
145°	1476	1479	1484	1482	1476	922
155°	1690	1690	1692	1698	1687	778
165°	1841	1837	1837	1846	1835	519
175°	1915	1909	1909	1918	1908	182
180°	1920	1920	1920	1920	1920	



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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°	1.5	16.6	36.2	42.2	45.2
92.5°	45.2	54.3	63.3	67.9	64.8
95°	89.0	99.5	111.6	117.6	117.6
97.5°	146.3	153.8	162.9	170.4	168.9
100°	205.1	214.1	221.7	226.2	229.2
102.5°	272.9	277.5	288.0	292.5	291.0
105°	339.3	342.3	355.9	355.9	358.9
107.5°	417.7	419.2	425.2	429.8	428.3
110°	490.1	493.1	496.1	502.1	499.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	565.5	567.0	567.0	574.5	574.5
115°	640.9	645.4	642.4	643.9	642.4
117.5°	717.8	719.3	716.3	716.3	711.8
120°	788.7	797.7	790.2	788.7	785.6
122.5°	862.5	868.6	865.6	861.0	856.5
125°	937.9	942.5	939.5	933.4	927.4
127.5°	1007.3	1016.4	1013.3	1004.3	998.3
130°	1076.7	1088.7	1084.2	1078.2	1067.6
132.5°	1146.0	1158.1	1155.1	1147.5	1140.0
135°	1216.9	1226.0	1224.5	1218.4	1215.4
137.5°	1281.8	1289.3	1293.8	1286.3	1281.8
140°	1349.6	1357.2	1358.7	1357.2	1346.6
142.5°	1411.4	1419.0	1422.0	1420.5	1412.9
145°	1476.3	1479.3	1483.8	1482.3	1476.3
147.5°	1532.1	1538.1	1542.6	1542.6	1533.6
150°	1590.9	1593.9	1596.9	1596.9	1587.9
152.5°	1639.1	1643.7	1645.2	1648.2	1640.6
155°	1690.4	1690.4	1691.9	1697.9	1687.4
157.5°	1734.1	1732.6	1734.1	1740.2	1731.1
160°	1774.9	1771.8	1771.8	1779.4	1773.3
162.5°	1811.0	1806.5	1808.0	1815.6	1805.0
165°	1841.2	1836.7	1836.7	1845.7	1835.2
167.5°	1866.8	1860.8	1862.3	1871.4	1862.3
170°	1887.9	1881.9	1881.9	1892.5	1881.9
172.5°	1904.5	1898.5	1898.5	1907.6	1897.0
175°	1915.1	1909.1	1909.1	1918.1	1907.6
177.5°	1921.1	1915.1	1915.1	1924.1	1913.6
180°	1919.6	1919.6	1919.6	1919.6	1919.6

(END OF REPORT)