

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: P334699

Luminaire Tested: **S123IW-S1535U840-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334699
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-S1535U840-4F0-1E-UDD-1
Description: DEFINE 3 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 1535 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5375.5 lumens
Efficiency: N/A
Efficacy: 175.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

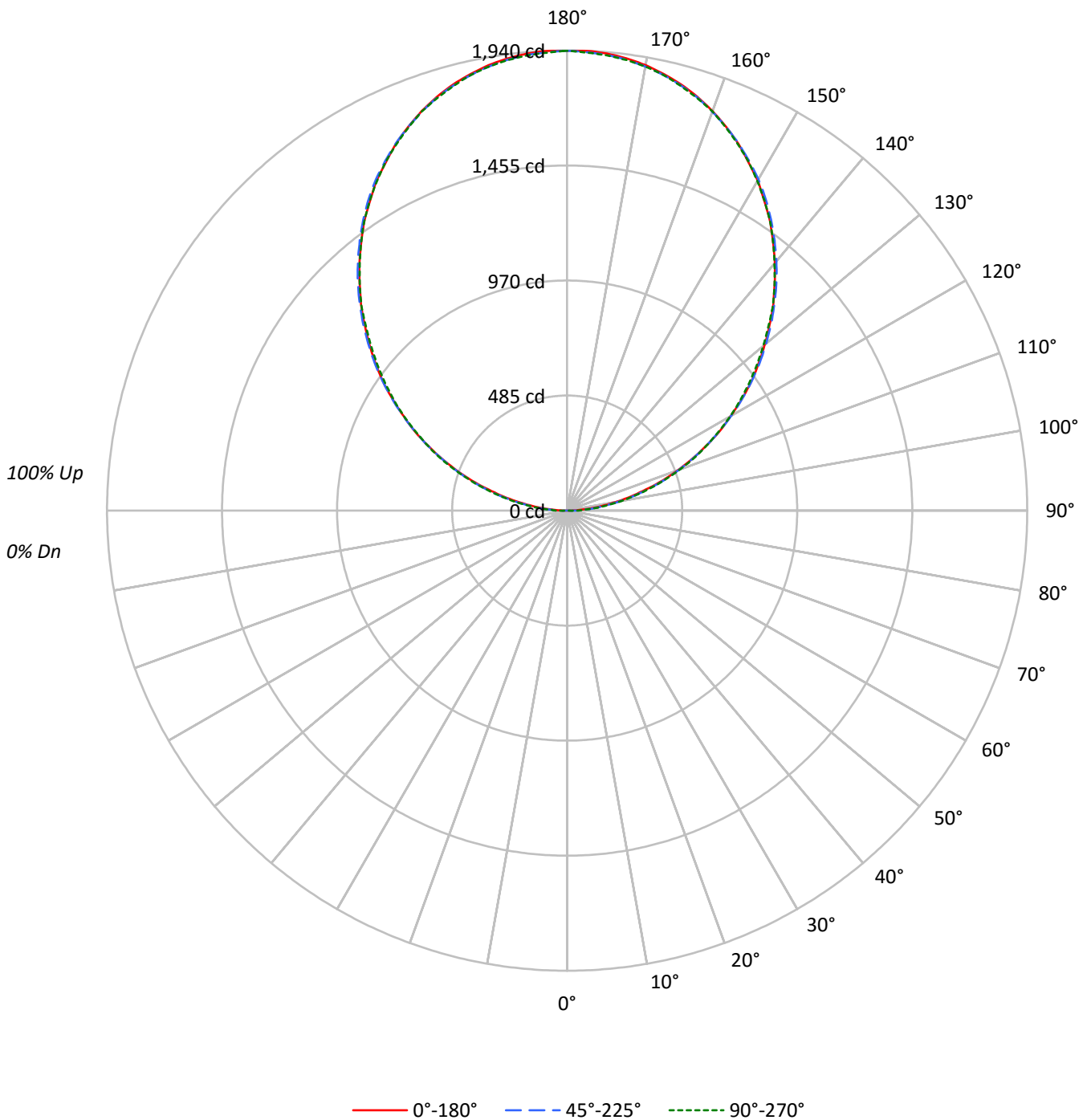
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	124.8	2.3
100°-110°	377.7	7.0
110°-120°	643.0	12.0
120°-130°	845.9	15.7
130°-140°	950.8	17.7
140°-150°	934.8	17.4
150°-160°	787.0	14.6
160°-170°	523.9	9.7
170°-180°	183.5	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°	1145.5	21.3
90°-150°	3877.0	72.1
90°-180°	5371.0	99.9
0°-180°	5375.5	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°	2	17	36	43	46	7
95°	90	100	113	119	119	99
105°	343	346	359	359	362	367
115°	647	652	649	650	649	641
125°	947	952	949	943	936	845
135°	1229	1238	1236	1230	1227	947
145°	1491	1494	1498	1497	1491	931
155°	1707	1707	1709	1715	1704	786
165°	1859	1855	1855	1864	1853	524
175°	1934	1928	1928	1937	1926	184
180°	1939	1939	1939	1939	1939	



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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	16.8	36.5	42.6	45.7
92.5°	45.7	54.8	64.0	68.5	65.5
95°	89.8	100.5	112.7	118.8	118.8
97.5°	147.7	155.3	164.5	172.1	170.6
100°	207.1	216.2	223.9	228.4	231.5
102.5°	275.6	280.2	290.9	295.4	293.9
105°	342.6	345.7	359.4	359.4	362.4
107.5°	421.8	423.3	429.4	434.0	432.5
110°	494.9	498.0	501.0	507.1	504.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	571.1	572.6	572.6	580.2	580.2
115°	647.2	651.8	648.7	650.2	648.7
117.5°	724.9	726.4	723.3	723.3	718.8
120°	796.4	805.6	798.0	796.4	793.4
122.5°	871.1	877.1	874.1	869.5	865.0
125°	947.2	951.8	948.7	942.6	936.5
127.5°	1017.2	1026.4	1023.3	1014.2	1008.1
130°	1087.3	1099.5	1094.9	1088.8	1078.2
132.5°	1157.3	1169.5	1166.5	1158.9	1151.3
135°	1228.9	1238.1	1236.5	1230.4	1227.4
137.5°	1294.4	1302.0	1306.6	1299.0	1294.4
140°	1362.9	1370.5	1372.1	1370.5	1359.9
142.5°	1425.4	1433.0	1436.0	1434.5	1426.9
145°	1490.8	1493.9	1498.5	1496.9	1490.8
147.5°	1547.2	1553.3	1557.8	1557.8	1548.7
150°	1606.6	1609.6	1612.7	1612.7	1603.5
152.5°	1655.3	1659.9	1661.4	1664.4	1656.8
155°	1707.1	1707.1	1708.6	1714.7	1704.0
157.5°	1751.2	1749.7	1751.2	1757.3	1748.2
160°	1792.4	1789.3	1789.3	1796.9	1790.8
162.5°	1828.9	1824.3	1825.9	1833.5	1822.8
165°	1859.4	1854.8	1854.8	1863.9	1853.3
167.5°	1885.3	1879.2	1880.7	1889.8	1880.7
170°	1906.6	1900.5	1900.5	1911.1	1900.5
172.5°	1923.3	1917.2	1917.2	1926.4	1915.7
175°	1934.0	1927.9	1927.9	1937.0	1926.4
177.5°	1940.1	1934.0	1934.0	1943.1	1932.5
180°	1938.6	1938.6	1938.6	1938.6	1938.6

(END OF REPORT)