

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: P334769

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334769
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-S1535U840-4F0-1E-UDD
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS
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: 6199.1 lumens
Efficiency: N/A
Efficacy: 202.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

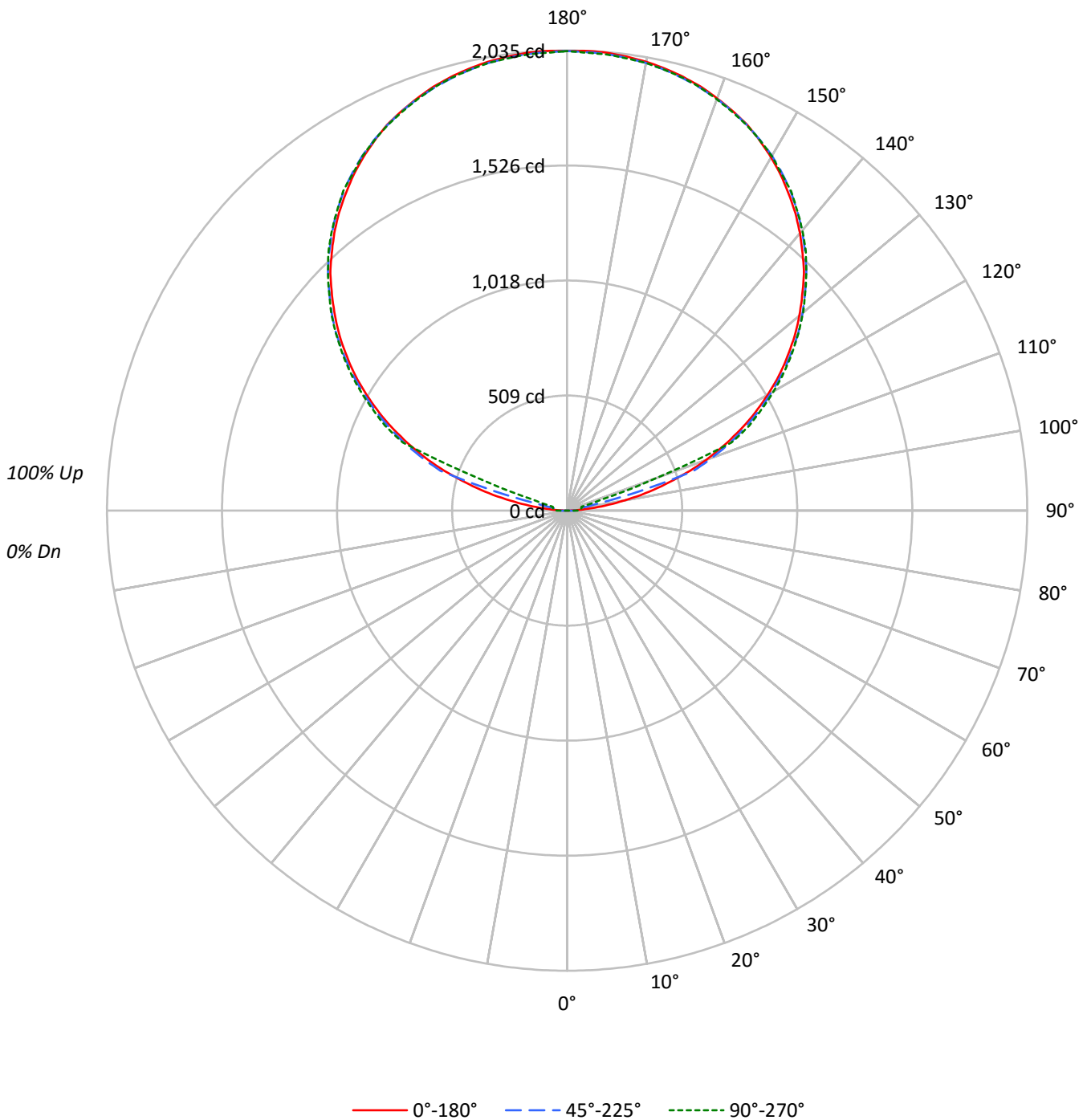
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	71.7	1.2
100°-110°	346.5	5.6
110°-120°	849.0	13.7
120°-130°	1077.8	17.4
130°-140°	1151.4	18.6
140°-150°	1076.7	17.4
150°-160°	868.4	14.0
160°-170°	560.5	9.0
170°-180°	193.1	3.1
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°	1267.1	20.4
90°-150°	4573.0	73.8
90°-180°	6195.0	99.9
0°-180°	6199.1	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°	2	17	36	42	45	5
95°	92	30	47	57	57	110
105°	450	466	331	63	66	477
115°	844	853	867	882	888	833
125°	1190	1202	1208	1211	1214	1063
135°	1481	1490	1496	1501	1496	1140
145°	1709	1720	1723	1726	1726	1070
155°	1883	1880	1881	1889	1880	867
165°	1985	1981	1979	1991	1981	561
175°	2032	2025	2026	2037	2025	193
180°	2032	2032	2032	2032	2032	



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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	42.3	45.3
92.5°	34.7	25.7	39.3	49.8	51.3
95°	92.1	30.2	46.8	57.4	57.4
97.5°	167.6	125.3	48.3	60.4	61.9
100°	255.1	285.3	49.8	61.9	63.4
102.5°	354.8	374.4	111.7	61.9	64.9
105°	449.9	466.5	330.6	63.4	66.4
107.5°	551.1	564.6	587.3	354.8	157.0
110°	652.2	664.3	680.9	631.1	415.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	748.8	759.4	776.0	789.6	786.6
115°	843.9	853.0	866.6	881.7	887.7
117.5°	937.5	948.1	955.7	967.7	969.2
120°	1023.6	1037.2	1041.7	1053.8	1053.8
122.5°	1111.2	1121.7	1127.8	1135.3	1136.8
125°	1189.7	1201.7	1207.8	1210.8	1213.8
127.5°	1268.2	1280.3	1287.8	1292.3	1289.3
130°	1340.6	1352.7	1358.8	1364.8	1361.8
132.5°	1410.1	1422.2	1426.7	1432.7	1428.2
135°	1481.0	1490.1	1496.1	1500.7	1496.1
137.5°	1541.4	1553.5	1556.5	1564.1	1561.1
140°	1601.8	1610.9	1615.4	1621.5	1618.4
142.5°	1657.7	1666.7	1671.3	1675.8	1671.3
145°	1709.0	1719.6	1722.6	1725.6	1725.6
147.5°	1758.8	1766.4	1769.4	1772.4	1764.9
150°	1804.1	1808.7	1811.7	1814.7	1810.2
152.5°	1844.9	1846.4	1847.9	1854.0	1846.4
155°	1882.6	1879.6	1881.1	1888.7	1879.6
157.5°	1912.8	1912.8	1911.3	1920.4	1908.3
160°	1940.0	1938.5	1937.0	1946.0	1935.5
162.5°	1965.7	1961.1	1959.6	1970.2	1961.1
165°	1985.3	1980.8	1979.3	1991.3	1980.8
167.5°	2001.9	1995.9	1995.9	2007.9	1995.9
170°	2015.5	2009.5	2009.5	2021.5	2009.5
172.5°	2024.6	2017.0	2018.5	2030.6	2017.0
175°	2032.1	2024.6	2026.1	2036.6	2024.6
177.5°	2035.1	2027.6	2029.1	2041.2	2026.1
180°	2032.1	2032.1	2032.1	2032.1	2032.1

(END OF REPORT)