

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: P334594

Luminaire Tested: **S122IW-S1440U840-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122IW-S1440U840-4F0-1E-UDD
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 1440 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5822.6 lumens
Efficiency: N/A
Efficacy: 190.3 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

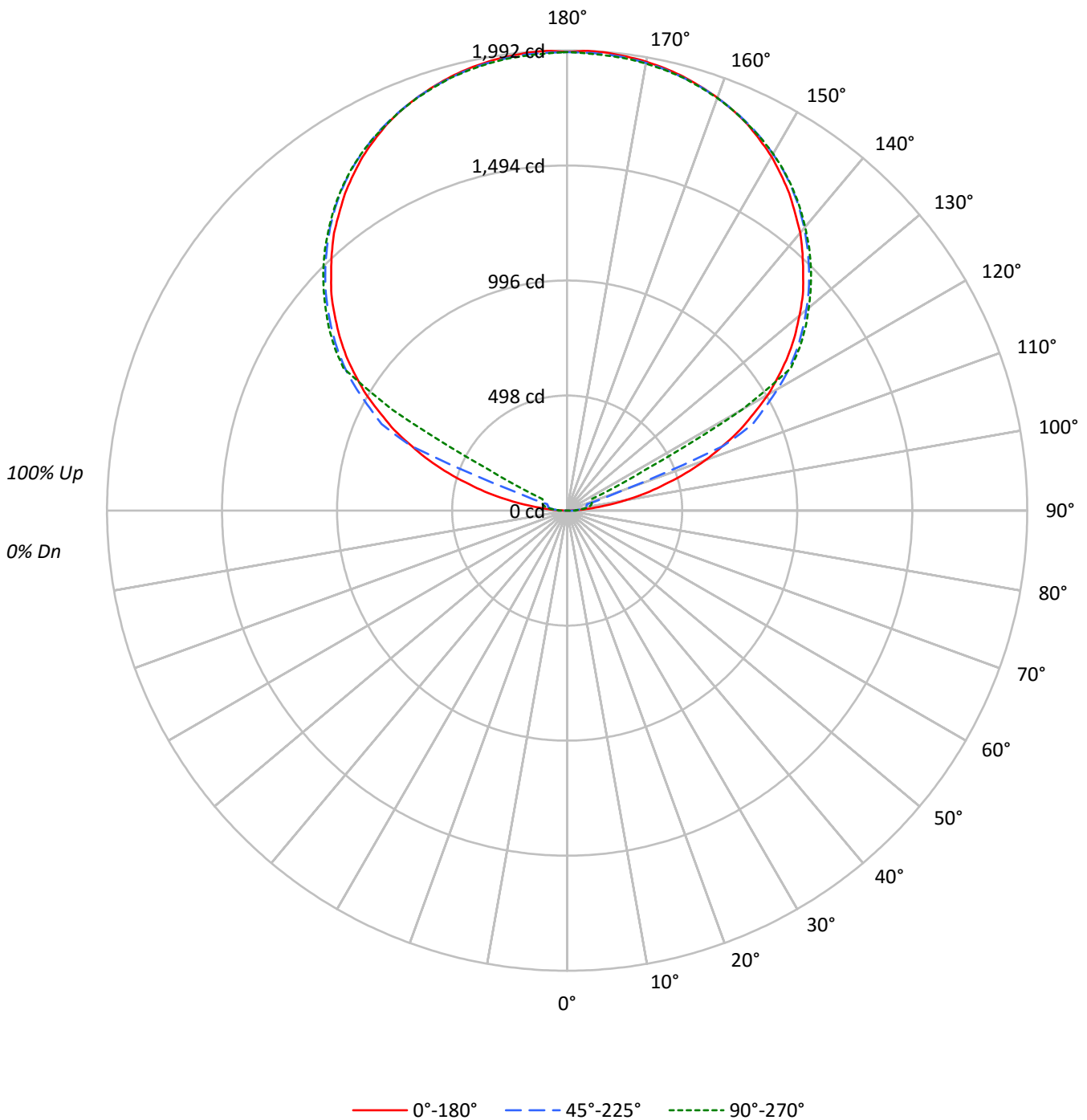
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3.5	0.1
90°-100°	65.5	1.1
100°-110°	244.0	4.2
110°-120°	647.1	11.1
120°-130°	1073.3	18.4
130°-140°	1140.0	19.6
140°-150°	1059.6	18.2
150°-160°	851.8	14.6
160°-170°	548.9	9.4
170°-180°	188.9	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.5	0.1
90°-120°	956.5	16.4
90°-150°	4229.4	72.6
90°-180°	5819.0	99.9
0°-180°	5822.6	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	17	29	36	39	5
95°	93	46	56	63	62	110
105°	437	480	88	103	109	467
115°	826	850	886	221	118	813
125°	1168	1186	1214	1224	1228	1041
135°	1445	1468	1481	1495	1492	1116
145°	1676	1675	1699	1709	1702	1048
155°	1846	1833	1850	1858	1847	850
165°	1945	1936	1940	1950	1940	549
175°	1989	1979	1982	1992	1978	189
180°	1985	1985	1985	1985	1985	



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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	17.2	28.7	35.9	38.8
92.5°	35.9	30.2	34.5	37.3	38.8
95°	93.4	46.0	56.0	63.2	61.8
97.5°	168.0	50.3	73.2	77.6	79.0
100°	254.2	57.5	81.9	93.4	96.2
102.5°	349.0	346.1	84.7	100.5	104.8
105°	436.6	479.7	87.6	103.4	109.2
107.5°	538.6	574.5	90.5	106.3	112.0
110°	636.3	666.4	251.3	107.7	113.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	728.2	754.0	729.6	110.6	114.9
115°	825.9	850.3	886.2	221.2	117.8
117.5°	910.6	939.3	963.7	758.3	382.0
120°	1005.4	1026.9	1052.8	1070.0	876.1
122.5°	1085.8	1108.8	1137.5	1146.1	1147.6
125°	1167.7	1186.4	1213.6	1223.7	1228.0
127.5°	1242.4	1262.5	1284.0	1298.4	1299.8
130°	1312.7	1335.7	1351.5	1367.3	1365.9
132.5°	1384.6	1403.2	1419.0	1432.0	1430.5
135°	1444.9	1467.9	1480.8	1495.2	1492.3
137.5°	1508.1	1525.3	1539.7	1554.0	1549.7
140°	1569.8	1581.3	1597.1	1610.1	1602.9
142.5°	1621.5	1631.6	1650.3	1661.8	1654.6
145°	1676.1	1674.7	1699.1	1709.2	1702.0
147.5°	1723.5	1719.2	1743.6	1750.8	1745.1
150°	1769.5	1759.4	1782.4	1791.0	1783.8
152.5°	1808.3	1796.8	1818.3	1826.9	1816.9
155°	1845.6	1832.7	1849.9	1858.5	1847.0
157.5°	1875.8	1864.3	1877.2	1887.3	1875.8
160°	1901.6	1893.0	1901.6	1910.2	1900.2
162.5°	1924.6	1916.0	1923.2	1933.2	1920.3
165°	1944.7	1936.1	1940.4	1950.5	1940.4
167.5°	1960.5	1951.9	1956.2	1966.3	1953.3
170°	1973.4	1964.8	1967.7	1977.7	1964.8
172.5°	1982.1	1973.4	1976.3	1986.4	1973.4
175°	1989.2	1979.2	1982.1	1992.1	1977.7
177.5°	1992.1	1982.1	1983.5	1993.5	1980.6
180°	1984.9	1984.9	1984.9	1984.9	1984.9

(END OF REPORT)