

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: P334584

Luminaire Tested: **S122IW-S1440U830-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334584  
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-S1440U830-4F0-1E-UDD  
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS  
WALL MOUNT, 1440 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

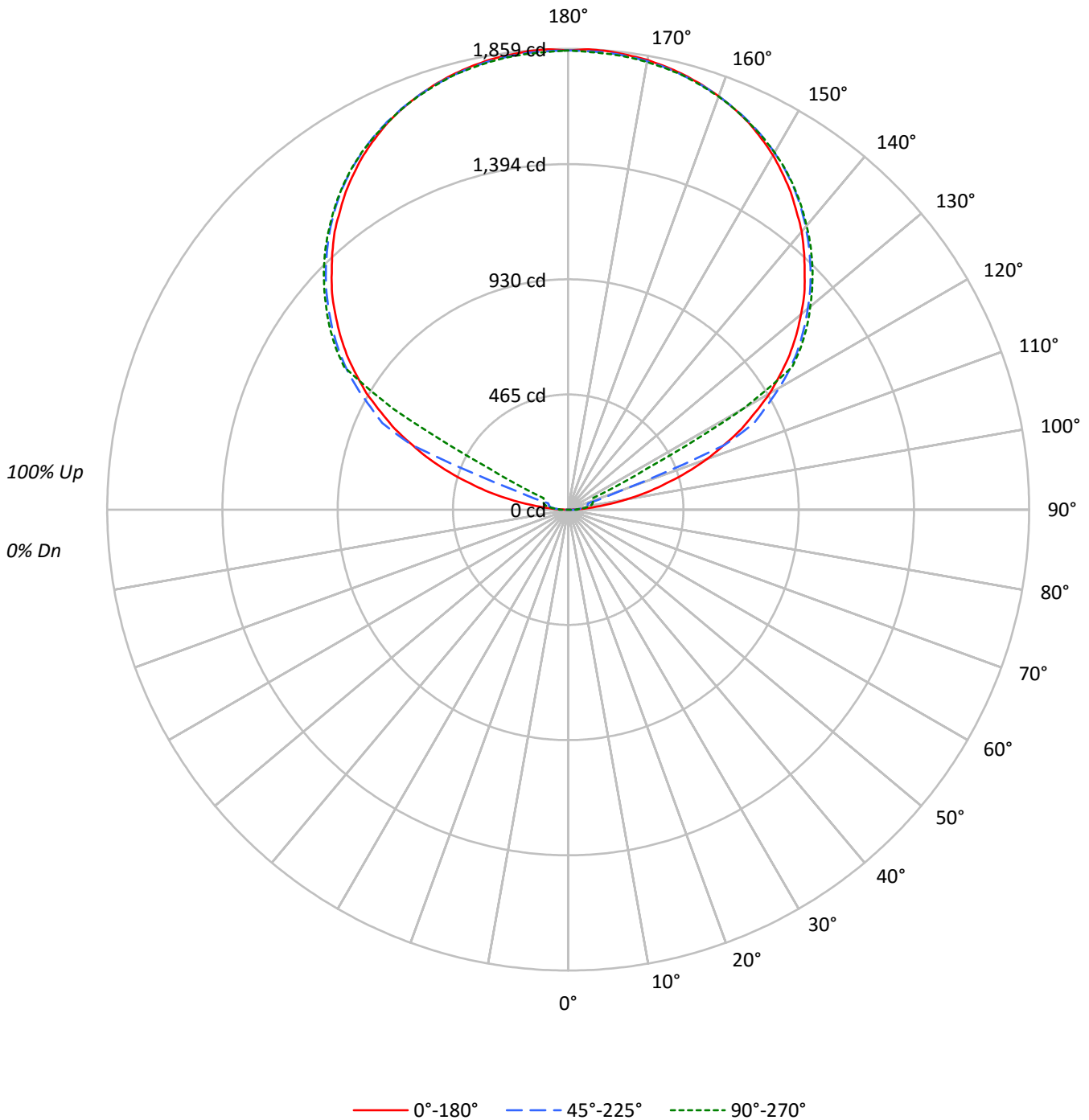
Lumens per Lamp: N/A  
Luminaire Lumens: 5434.4 lumens  
Efficiency: N/A  
Efficacy: 177.6 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 30.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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°	3.3	0.1
90°-100°	61.1	1.1
100°-110°	227.7	4.2
110°-120°	604.0	11.1
120°-130°	1001.7	18.4
130°-140°	1064.0	19.6
140°-150°	988.9	18.2
150°-160°	795.1	14.6
160°-170°	512.3	9.4
170°-180°	176.3	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.3	0.1
90°-120°	892.8	16.4
90°-150°	3947.5	72.6
90°-180°	5431.0	99.9
0°-180°	5434.4	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	27	34	36	5
95°	87	43	52	59	58	103
105°	408	448	82	96	102	435
115°	771	794	827	206	110	759
125°	1090	1107	1133	1142	1146	972
135°	1349	1370	1382	1396	1393	1042
145°	1564	1563	1586	1595	1588	978
155°	1723	1710	1727	1735	1724	794
165°	1815	1807	1811	1820	1811	513
175°	1857	1847	1850	1859	1846	177
180°	1853	1853	1853	1853	1853	



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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°	1.3	16.1	26.8	33.5	36.2
92.5°	33.5	28.2	32.2	34.9	36.2
95°	87.1	42.9	52.3	59.0	57.6
97.5°	156.8	46.9	68.4	72.4	73.7
100°	237.3	53.6	76.4	87.1	89.8
102.5°	325.7	323.1	79.1	93.8	97.9
105°	407.5	447.7	81.8	96.5	101.9
107.5°	502.7	536.2	84.5	99.2	104.6
110°	593.9	622.0	234.6	100.5	105.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	679.6	703.8	681.0	103.2	107.2
115°	770.8	793.6	827.1	206.4	109.9
117.5°	849.9	876.7	899.5	707.8	356.6
120°	938.4	958.5	982.6	998.7	817.7
122.5°	1013.4	1034.9	1061.7	1069.7	1071.1
125°	1089.8	1107.3	1132.7	1142.1	1146.1
127.5°	1159.5	1178.3	1198.4	1211.8	1213.2
130°	1225.2	1246.7	1261.4	1276.2	1274.8
132.5°	1292.3	1309.7	1324.4	1336.5	1335.2
135°	1348.6	1370.0	1382.1	1395.5	1392.8
137.5°	1407.5	1423.6	1437.0	1450.4	1446.4
140°	1465.2	1475.9	1490.7	1502.7	1496.0
142.5°	1513.4	1522.8	1540.3	1551.0	1544.3
145°	1564.4	1563.0	1585.8	1595.2	1588.5
147.5°	1608.6	1604.6	1627.4	1634.1	1628.7
150°	1651.5	1642.1	1663.6	1671.6	1664.9
152.5°	1687.7	1677.0	1697.1	1705.1	1695.8
155°	1722.6	1710.5	1726.6	1734.6	1723.9
157.5°	1750.7	1740.0	1752.1	1761.4	1750.7
160°	1774.8	1766.8	1774.8	1782.9	1773.5
162.5°	1796.3	1788.3	1795.0	1804.3	1792.3
165°	1815.1	1807.0	1811.0	1820.4	1811.0
167.5°	1829.8	1821.8	1825.8	1835.2	1823.1
170°	1841.9	1833.8	1836.5	1845.9	1833.8
172.5°	1849.9	1841.9	1844.6	1853.9	1841.9
175°	1856.6	1847.2	1849.9	1859.3	1845.9
177.5°	1859.3	1849.9	1851.3	1860.6	1848.6
180°	1852.6	1852.6	1852.6	1852.6	1852.6

(END OF REPORT)