

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: P334604

Luminaire Tested: **S122IW-S1440U930-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334604  
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-S1440U930-4F0-1E-UDD  
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS  
WALL MOUNT, 1440 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4700.8 lumens  
Efficiency: N/A  
Efficacy: 153.6 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Indirect

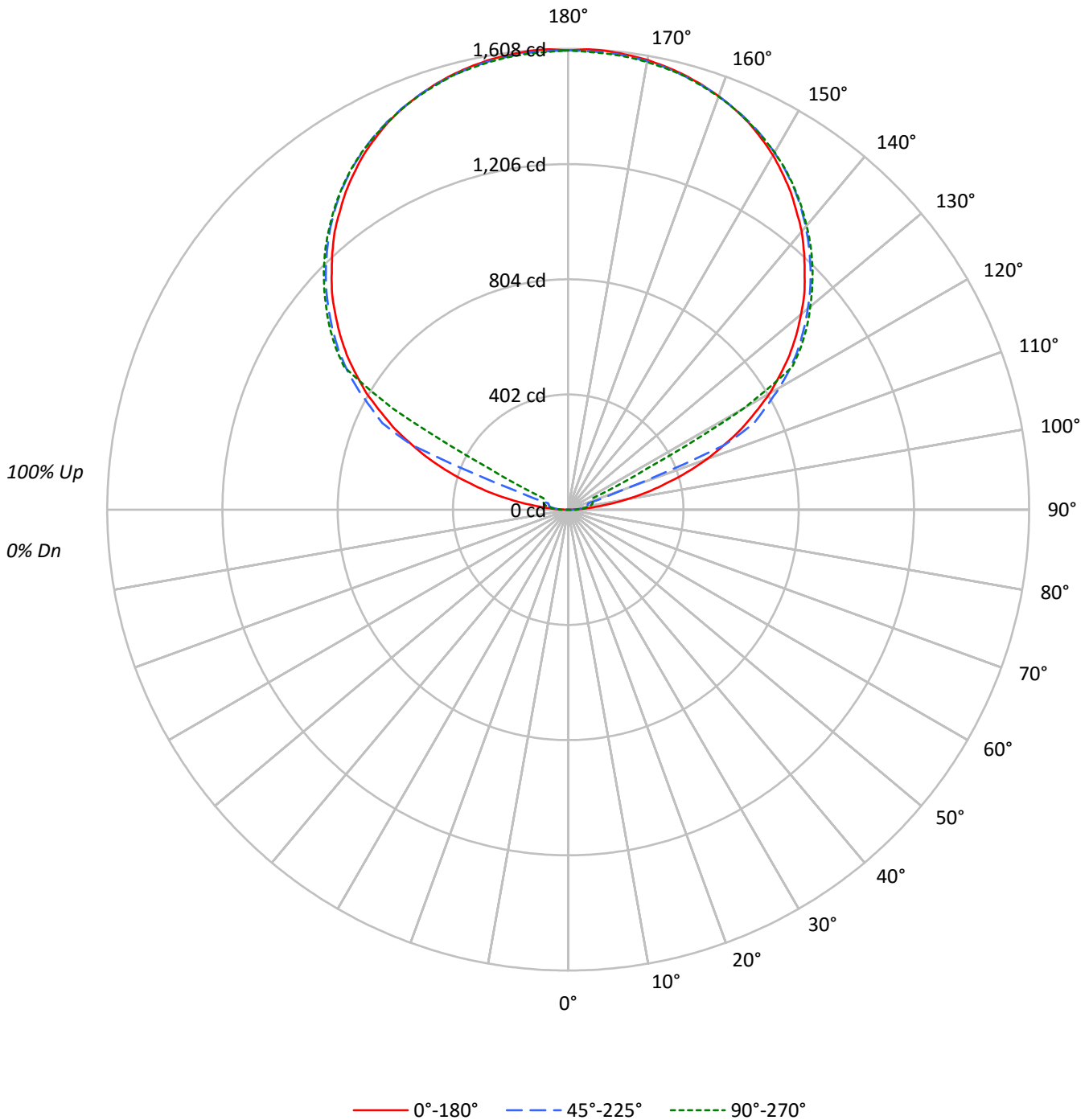
Input Watts (W): 30.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2.8	0.1
90°-100°	52.8	1.1
100°-110°	197.0	4.2
110°-120°	522.4	11.1
120°-130°	866.5	18.4
130°-140°	920.4	19.6
140°-150°	855.4	18.2
150°-160°	687.7	14.6
160°-170°	443.2	9.4
170°-180°	152.5	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.8	0.1
90°-120°	772.3	16.4
90°-150°	3414.6	72.6
90°-180°	4698.0	99.9
0°-180°	4700.8	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	14	23	29	31	4
95°	75	37	45	51	50	89
105°	352	387	71	84	88	377
115°	667	686	715	179	95	656
125°	943	958	980	988	991	841
135°	1166	1185	1196	1207	1205	901
145°	1353	1352	1372	1380	1374	846
155°	1490	1480	1494	1500	1491	687
165°	1570	1563	1567	1575	1567	444
175°	1606	1598	1600	1608	1597	153
180°	1602	1602	1602	1602	1602	



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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°	1.2	13.9	23.2	29.0	31.3
92.5°	29.0	24.4	27.8	30.1	31.3
95°	75.4	37.1	45.2	51.0	49.9
97.5°	135.7	40.6	59.1	62.6	63.8
100°	205.2	46.4	66.1	75.4	77.7
102.5°	281.8	279.5	68.4	81.2	84.6
105°	352.5	387.3	70.7	83.5	88.1
107.5°	434.8	463.8	73.1	85.8	90.4
110°	513.7	538.0	202.9	87.0	91.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	587.9	608.8	589.1	89.3	92.8
115°	666.7	686.5	715.4	178.6	95.1
117.5°	735.2	758.3	778.1	612.2	308.4
120°	811.7	829.1	850.0	863.9	707.3
122.5°	876.6	895.2	918.4	925.3	926.5
125°	942.7	957.8	979.8	987.9	991.4
127.5°	1003.0	1019.2	1036.6	1048.2	1049.4
130°	1059.8	1078.4	1091.1	1103.9	1102.7
132.5°	1117.8	1132.9	1145.6	1156.1	1154.9
135°	1166.5	1185.1	1195.5	1207.1	1204.8
137.5°	1217.5	1231.4	1243.0	1254.6	1251.2
140°	1267.4	1276.7	1289.4	1299.9	1294.1
142.5°	1309.1	1317.2	1332.3	1341.6	1335.8
145°	1353.2	1352.0	1371.7	1379.9	1374.1
147.5°	1391.5	1388.0	1407.7	1413.5	1408.9
150°	1428.6	1420.4	1439.0	1446.0	1440.2
152.5°	1459.9	1450.6	1468.0	1474.9	1466.8
155°	1490.0	1479.6	1493.5	1500.5	1491.2
157.5°	1514.4	1505.1	1515.5	1523.6	1514.4
160°	1535.2	1528.3	1535.2	1542.2	1534.1
162.5°	1553.8	1546.8	1552.6	1560.8	1550.3
165°	1570.0	1563.1	1566.6	1574.7	1566.6
167.5°	1582.8	1575.8	1579.3	1587.4	1577.0
170°	1593.2	1586.3	1588.6	1596.7	1586.3
172.5°	1600.2	1593.2	1595.5	1603.7	1593.2
175°	1606.0	1597.9	1600.2	1608.3	1596.7
177.5°	1608.3	1600.2	1601.3	1609.5	1599.0
180°	1602.5	1602.5	1602.5	1602.5	1602.5

(END OF REPORT)