

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: P334539

Luminaire Tested: **S122IW-S1440U935-4F0-1E-UDD-1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334539  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122IW-S1440U935-4F0-1E-UDD-1  
Description: DEFINE 2 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
WALL MOUNT, 1440 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4304.7 lumens  
Efficiency: N/A  
Efficacy: 140.7 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Indirect

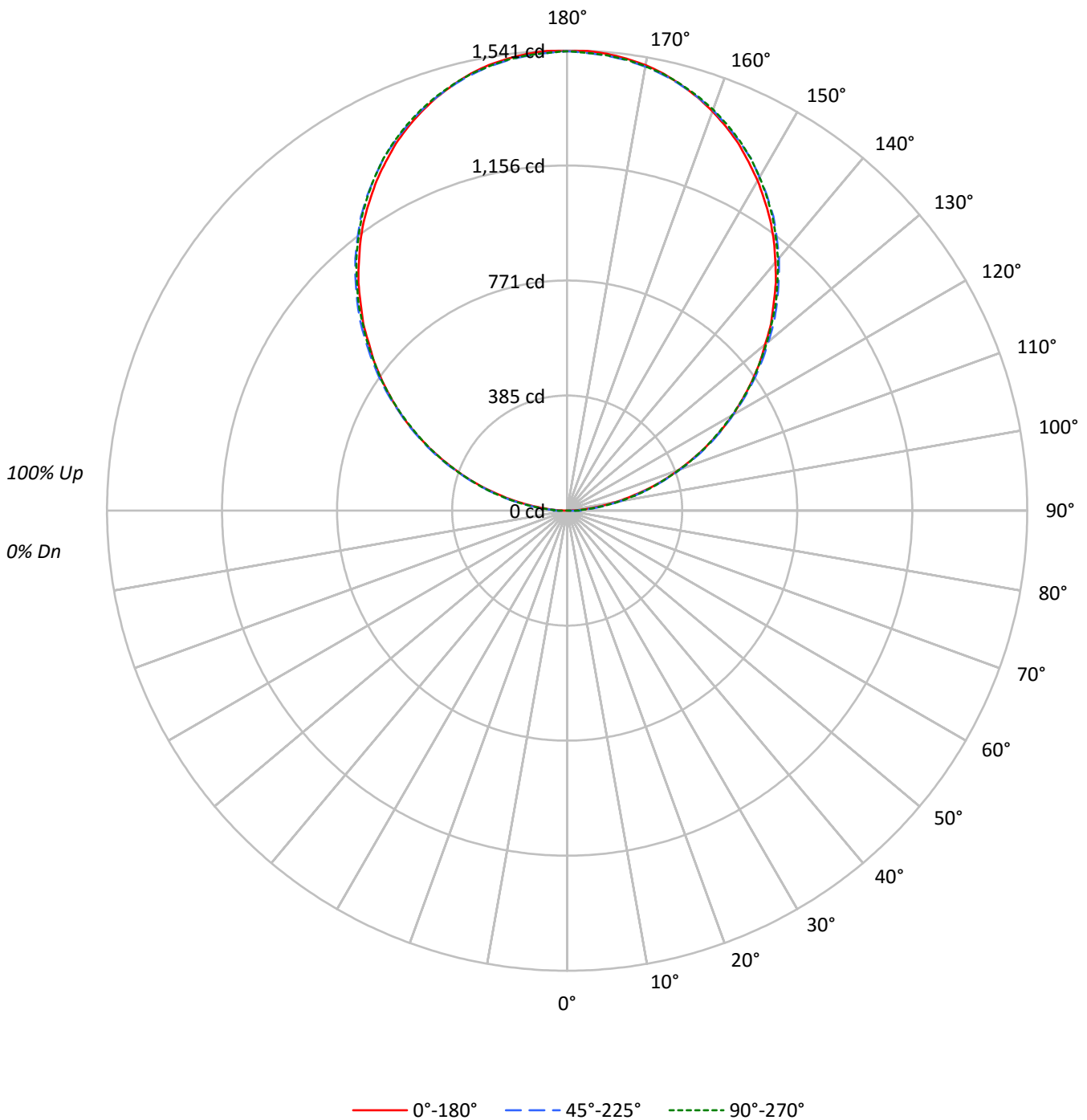
Input Watts (W): 30.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4.4	0.1
90°-100°	95.1	2.2
100°-110°	302.5	7.0
110°-120°	517.6	12.0
120°-130°	680.7	15.8
130°-140°	764.1	17.7
140°-150°	749.3	17.4
150°-160°	628.5	14.6
160°-170°	416.8	9.7
170°-180°	145.7	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	4.4	0.1
90°-120°	915.2	21.3
90°-150°	3109.3	72.2
90°-180°	4300.0	99.9
0°-180°	4304.7	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	45	43	44	4
95°	68	80	83	83	80	75
105°	279	283	286	288	288	295
115°	519	527	524	523	519	514
125°	755	767	763	759	758	675
135°	977	992	994	993	989	755
145°	1186	1196	1203	1205	1199	741
155°	1356	1360	1364	1371	1367	624
165°	1476	1474	1474	1484	1477	416
175°	1536	1532	1529	1538	1530	146
180°	1538	1538	1538	1538	1538	



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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	16.9	45.4	42.8	44.1
92.5°	28.6	38.9	40.2	41.5	41.5
95°	67.5	80.5	83.1	83.1	80.5
97.5°	112.9	124.6	129.8	129.8	129.8
100°	164.8	175.2	179.1	179.1	177.8
102.5°	219.4	227.2	232.3	233.6	232.3
105°	279.1	283.0	285.6	288.2	288.2
107.5°	338.8	344.0	344.0	345.3	338.8
110°	395.9	403.7	403.7	403.7	399.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	458.2	466.0	464.7	460.8	458.2
115°	519.2	527.0	524.4	523.1	519.2
117.5°	580.2	590.6	584.1	580.2	576.3
120°	641.2	651.6	641.2	641.2	637.3
122.5°	697.0	710.0	703.5	699.6	697.0
125°	755.4	767.1	763.2	759.3	758.0
127.5°	812.6	826.8	821.6	816.4	812.6
130°	865.8	882.6	880.1	877.5	872.3
132.5°	925.5	938.5	939.8	933.3	929.4
135°	977.4	991.7	994.3	993.0	989.1
137.5°	1034.5	1046.2	1048.8	1047.5	1042.3
140°	1085.1	1096.8	1103.3	1103.3	1098.1
142.5°	1137.1	1148.7	1152.6	1153.9	1148.7
145°	1186.4	1195.5	1203.3	1204.6	1199.4
147.5°	1230.5	1242.2	1247.4	1250.0	1244.8
150°	1275.9	1283.7	1288.9	1292.8	1288.9
152.5°	1316.2	1324.0	1330.5	1335.7	1330.5
155°	1356.4	1360.3	1364.2	1370.7	1366.8
157.5°	1391.5	1394.1	1396.7	1405.7	1399.3
160°	1422.6	1425.2	1426.5	1434.3	1429.1
162.5°	1451.2	1451.2	1452.5	1461.6	1455.1
165°	1475.8	1474.5	1474.5	1483.6	1477.1
167.5°	1497.9	1494.0	1494.0	1503.1	1496.6
170°	1514.8	1510.9	1509.6	1518.7	1510.9
172.5°	1526.5	1522.6	1521.3	1530.4	1522.6
175°	1535.5	1531.7	1529.1	1538.1	1530.4
177.5°	1540.7	1536.8	1534.2	1542.0	1534.2
180°	1538.1	1538.1	1538.1	1538.1	1538.1

(END OF REPORT)