

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: P334534

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334534
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-S1440U930-4F0-1E-UDD-1
Description: DEFINE 2 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
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: 4076.2 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

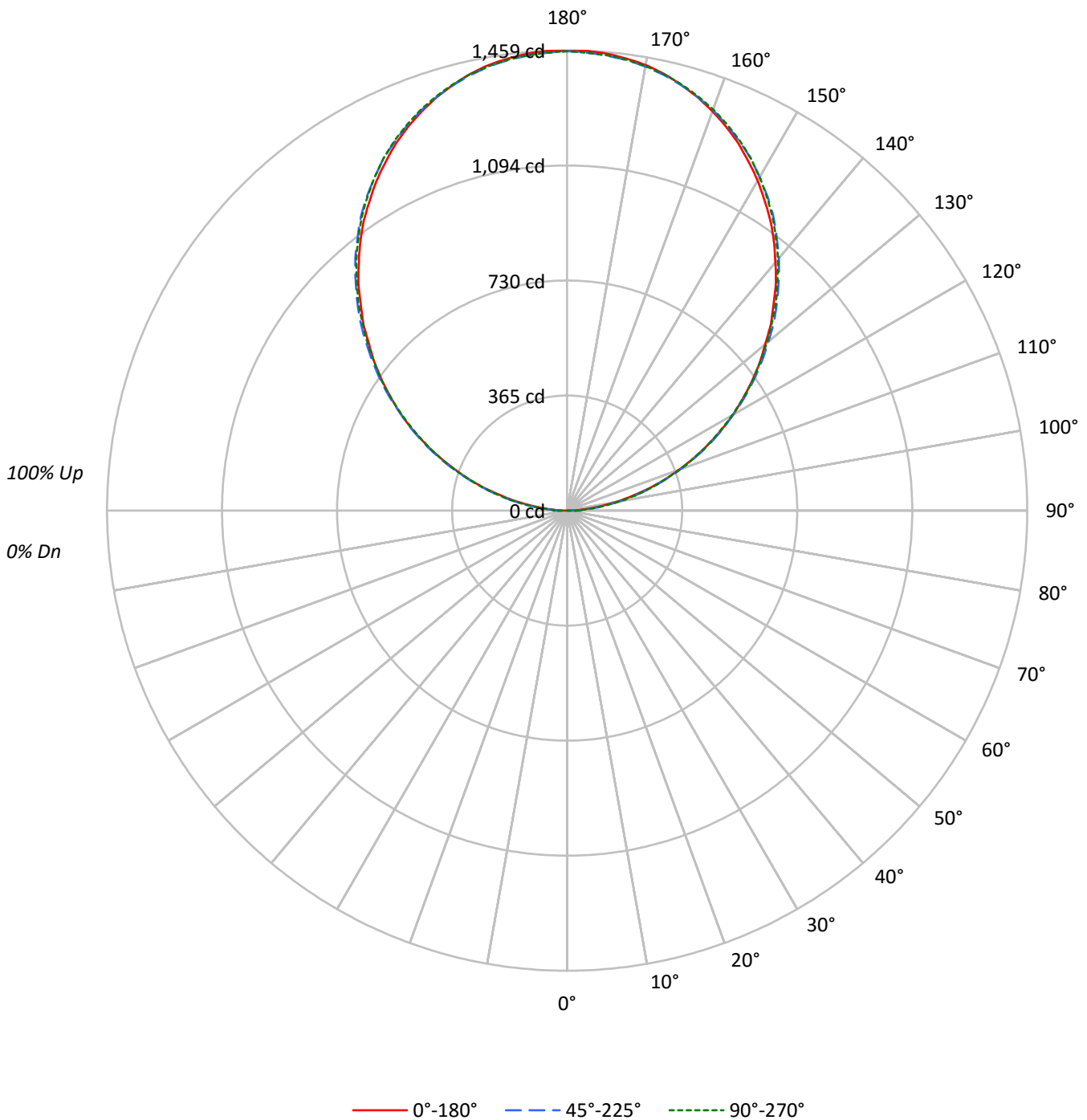
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	90.1	2.2
100°-110°	286.4	7.0
110°-120°	490.1	12.0
120°-130°	644.6	15.8
130°-140°	723.5	17.7
140°-150°	709.5	17.4
150°-160°	595.2	14.6
160°-170°	394.7	9.7
170°-180°	138.0	3.4
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°	866.6	21.3
90°-150°	2944.2	72.2
90°-180°	4072.0	99.9
0°-180°	4076.2	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	43	41	42	4
95°	64	76	79	79	76	71
105°	264	268	270	273	273	279
115°	492	499	497	495	492	486
125°	715	726	723	719	718	639
135°	926	939	942	940	937	715
145°	1123	1132	1139	1141	1136	702
155°	1284	1288	1292	1298	1294	591
165°	1398	1396	1396	1405	1399	394
175°	1454	1450	1448	1456	1449	138
180°	1456	1456	1456	1456	1456	



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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	16.0	43.0	40.6	41.8
92.5°	27.0	36.9	38.1	39.3	39.3
95°	63.9	76.2	78.7	78.7	76.2
97.5°	106.9	118.0	122.9	122.9	122.9
100°	156.1	165.9	169.6	169.6	168.4
102.5°	207.7	215.1	220.0	221.2	220.0
105°	264.3	267.9	270.4	272.9	272.9
107.5°	320.8	325.7	325.7	326.9	320.8
110°	374.9	382.3	382.3	382.3	378.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	433.9	441.3	440.0	436.3	433.9
115°	491.6	499.0	496.6	495.3	491.6
117.5°	549.4	559.2	553.1	549.4	545.7
120°	607.2	617.0	607.2	607.2	603.5
122.5°	660.0	672.3	666.2	662.5	660.0
125°	715.3	726.4	722.7	719.0	717.8
127.5°	769.4	782.9	778.0	773.1	769.4
130°	819.8	835.8	833.3	830.9	826.0
132.5°	876.4	888.6	889.9	883.7	880.0
135°	925.5	939.0	941.5	940.3	936.6
137.5°	979.6	990.7	993.1	991.9	987.0
140°	1027.5	1038.6	1044.7	1044.7	1039.8
142.5°	1076.7	1087.8	1091.5	1092.7	1087.8
145°	1123.4	1132.0	1139.4	1140.6	1135.7
147.5°	1165.2	1176.3	1181.2	1183.6	1178.7
150°	1208.2	1215.6	1220.5	1224.2	1220.5
152.5°	1246.3	1253.7	1259.8	1264.8	1259.8
155°	1284.4	1288.1	1291.8	1297.9	1294.3
157.5°	1317.6	1320.1	1322.5	1331.1	1325.0
160°	1347.1	1349.6	1350.8	1358.2	1353.3
162.5°	1374.1	1374.1	1375.4	1384.0	1377.8
165°	1397.5	1396.3	1396.3	1404.9	1398.7
167.5°	1418.4	1414.7	1414.7	1423.3	1417.2
170°	1434.4	1430.7	1429.5	1438.1	1430.7
172.5°	1445.4	1441.7	1440.5	1449.1	1441.7
175°	1454.0	1450.4	1447.9	1456.5	1449.1
177.5°	1459.0	1455.3	1452.8	1460.2	1452.8
180°	1456.5	1456.5	1456.5	1456.5	1456.5

(END OF REPORT)