

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: P334599

Luminaire Tested: **S122IW-S1440U927-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334599
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-S1440U927-4F0-1E-UDD
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 1440 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4567.5 lumens
Efficiency: N/A
Efficacy: 149.3 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

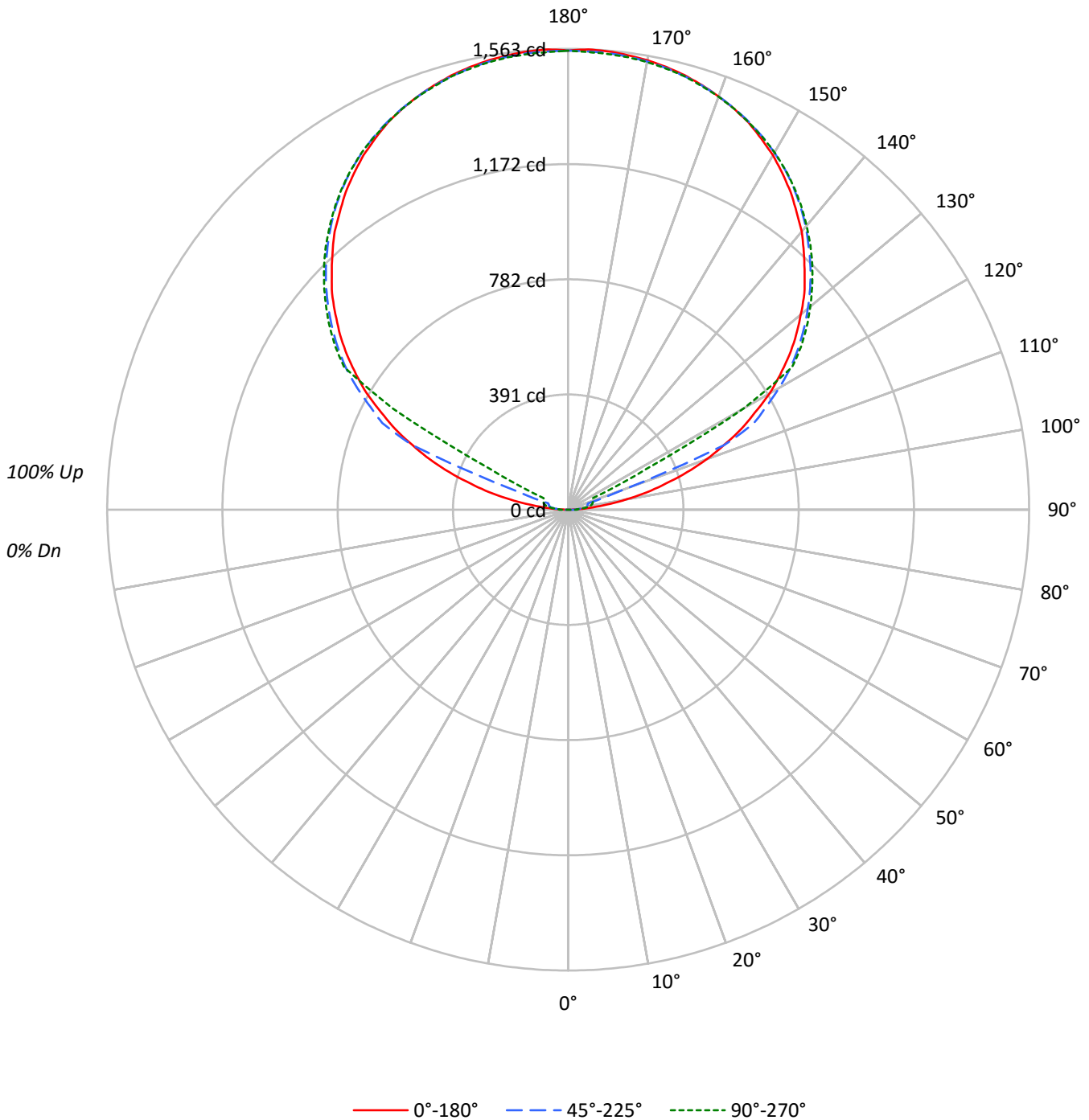
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334599

CATALOG NUMBER: S122IW-S1440U927-4F0-1E-UDD

Luminous Intensity Polar Plot





TEST NUMBER: P334599

CATALOG NUMBER: S122IW-S1440U927-4F0-1E-UDD

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



TEST NUMBER: P334599

CATALOG NUMBER: S122IW-S1440U927-4F0-1E-UDD

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°	2.7	0.1
90°-100°	51.3	1.1
100°-110°	191.4	4.2
110°-120°	507.6	11.1
120°-130°	841.9	18.4
130°-140°	894.3	19.6
140°-150°	831.2	18.2
150°-160°	668.2	14.6
160°-170°	430.6	9.4
170°-180°	148.2	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.7	0.1
90°-120°	750.4	16.4
90°-150°	3317.8	72.6
90°-180°	4565.0	99.9
0°-180°	4567.5	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	22	28	30	4
95°	73	36	44	50	48	87
105°	342	376	69	81	86	366
115°	648	667	695	174	92	638
125°	916	931	952	960	963	817
135°	1133	1152	1162	1173	1171	876
145°	1315	1314	1333	1341	1335	822
155°	1448	1438	1451	1458	1449	667
165°	1526	1519	1522	1530	1522	431
175°	1560	1553	1555	1563	1551	149
180°	1557	1557	1557	1557	1557	



TEST NUMBER: P334599

CATALOG NUMBER: S122IW-S1440U927-4F0-1E-UDD

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°	1.1	13.5	22.5	28.2	30.4
92.5°	28.2	23.7	27.0	29.3	30.4
95°	73.2	36.1	43.9	49.6	48.4
97.5°	131.8	39.4	57.5	60.8	62.0
100°	199.4	45.1	64.2	73.2	75.5
102.5°	273.8	271.5	66.5	78.9	82.2
105°	342.5	376.3	68.7	81.1	85.6
107.5°	422.5	450.7	71.0	83.4	87.9
110°	499.1	522.8	197.2	84.5	89.0



TEST NUMBER: P334599

CATALOG NUMBER: S122IW-S1440U927-4F0-1E-UDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	571.2	591.5	572.3	86.8	90.1
115°	647.8	667.0	695.2	173.5	92.4
117.5°	714.3	736.8	756.0	594.9	299.7
120°	788.7	805.6	825.9	839.4	687.3
122.5°	851.8	869.8	892.3	899.1	900.2
125°	916.0	930.6	952.0	959.9	963.3
127.5°	974.6	990.3	1007.2	1018.5	1019.6
130°	1029.8	1047.8	1060.2	1072.6	1071.5
132.5°	1086.1	1100.8	1113.2	1123.3	1122.2
135°	1133.4	1151.5	1161.6	1172.9	1170.6
137.5°	1183.0	1196.5	1207.8	1219.1	1215.7
140°	1231.5	1240.5	1252.9	1263.0	1257.4
142.5°	1272.0	1279.9	1294.5	1303.6	1297.9
145°	1314.8	1313.7	1332.9	1340.7	1335.1
147.5°	1352.0	1348.6	1367.8	1373.4	1368.9
150°	1388.1	1380.2	1398.2	1405.0	1399.3
152.5°	1418.5	1409.5	1426.4	1433.1	1425.2
155°	1447.8	1437.6	1451.2	1457.9	1448.9
157.5°	1471.4	1462.4	1472.6	1480.4	1471.4
160°	1491.7	1485.0	1491.7	1498.5	1490.6
162.5°	1509.7	1503.0	1508.6	1516.5	1506.4
165°	1525.5	1518.8	1522.1	1530.0	1522.1
167.5°	1537.9	1531.1	1534.5	1542.4	1532.3
170°	1548.0	1541.3	1543.5	1551.4	1541.3
172.5°	1554.8	1548.0	1550.3	1558.2	1548.0
175°	1560.4	1552.6	1554.8	1562.7	1551.4
177.5°	1562.7	1554.8	1555.9	1563.8	1553.7
180°	1557.1	1557.1	1557.1	1557.1	1557.1

(END OF REPORT)