

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: P334514

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334514
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-S1440U830-4F0-1E-UDD-1
Description: DEFINE 2 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
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: 4712.4 lumens
Efficiency: N/A
Efficacy: 154.0 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

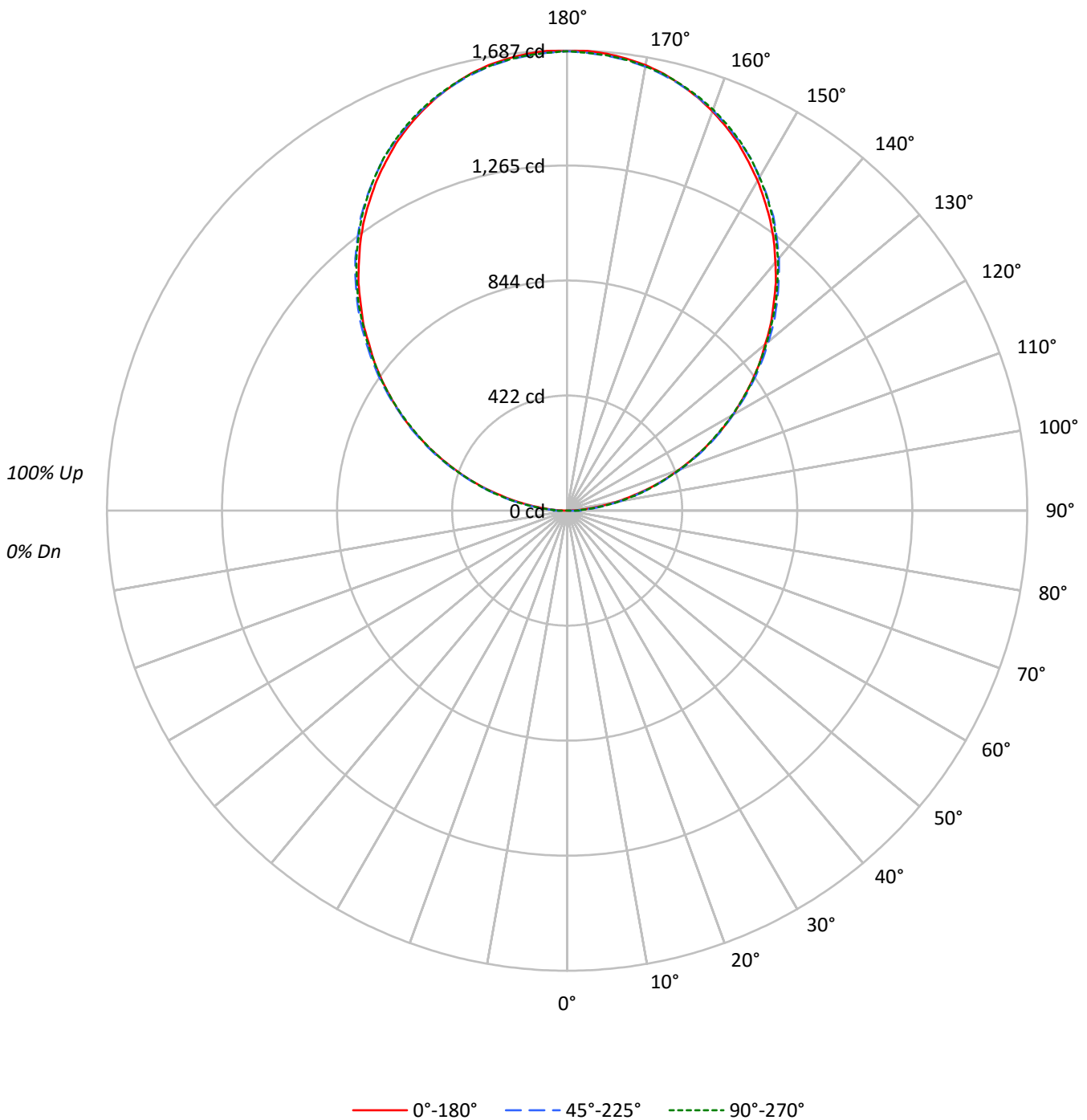
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334514

CATALOG NUMBER: S122IW-S1440U830-4F0-1E-UDD-1

Luminous Intensity Polar Plot





TEST NUMBER: P334514

CATALOG NUMBER: S122IW-S1440U830-4F0-1E-UDD-1

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: P334514

CATALOG NUMBER: S122IW-S1440U830-4F0-1E-UDD-1

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°	4.8	0.1
90°-100°	104.1	2.2
100°-110°	331.1	7.0
110°-120°	566.6	12.0
120°-130°	745.2	15.8
130°-140°	836.4	17.7
140°-150°	820.3	17.4
150°-160°	688.0	14.6
160°-170°	456.3	9.7
170°-180°	159.5	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	4.8	0.1
90°-120°	1001.9	21.3
90°-150°	3403.7	72.2
90°-180°	4708.0	99.9
0°-180°	4712.4	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	18	50	47	48	5
95°	74	88	91	91	88	82
105°	306	310	313	315	315	323
115°	568	577	574	573	568	562
125°	827	840	836	831	830	739
135°	1070	1086	1088	1087	1083	827
145°	1299	1309	1317	1319	1313	811
155°	1485	1489	1493	1500	1496	684
165°	1616	1614	1614	1624	1617	456
175°	1681	1677	1674	1684	1675	160
180°	1684	1684	1684	1684	1684	



TEST NUMBER: P334514

CATALOG NUMBER: S122IW-S1440U830-4F0-1E-UDD-1

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°	1.4	18.5	49.7	46.9	48.3
92.5°	31.3	42.6	44.0	45.5	45.5
95°	73.9	88.1	90.9	90.9	88.1
97.5°	123.6	136.4	142.1	142.1	142.1
100°	180.5	191.8	196.1	196.1	194.7
102.5°	240.1	248.7	254.3	255.8	254.3
105°	305.5	309.8	312.6	315.4	315.4
107.5°	370.9	376.5	376.5	378.0	370.9
110°	433.4	441.9	441.9	441.9	437.6



TEST NUMBER: P334514

CATALOG NUMBER: S122IW-S1440U830-4F0-1E-UDD-1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	501.6	510.1	508.7	504.4	501.6
115°	568.4	576.9	574.1	572.6	568.4
117.5°	635.2	646.5	639.4	635.2	630.9
120°	701.9	713.3	701.9	701.9	697.7
122.5°	763.0	777.3	770.1	765.9	763.0
125°	827.0	839.8	835.5	831.2	829.8
127.5°	889.5	905.1	899.5	893.8	889.5
130°	947.8	966.2	963.4	960.6	954.9
132.5°	1013.1	1027.3	1028.8	1021.7	1017.4
135°	1070.0	1085.6	1088.4	1087.0	1082.8
137.5°	1132.5	1145.3	1148.1	1146.7	1141.0
140°	1187.9	1200.7	1207.8	1207.8	1202.1
142.5°	1244.7	1257.5	1261.8	1263.2	1257.5
145°	1298.7	1308.7	1317.2	1318.6	1312.9
147.5°	1347.1	1359.8	1365.5	1368.4	1362.7
150°	1396.8	1405.3	1411.0	1415.3	1411.0
152.5°	1440.8	1449.4	1456.5	1462.1	1456.5
155°	1484.9	1489.1	1493.4	1500.5	1496.2
157.5°	1523.2	1526.1	1528.9	1538.9	1531.8
160°	1557.3	1560.2	1561.6	1570.1	1564.5
162.5°	1588.6	1588.6	1590.0	1600.0	1592.9
165°	1615.6	1614.2	1614.2	1624.1	1617.0
167.5°	1639.8	1635.5	1635.5	1645.4	1638.3
170°	1658.2	1654.0	1652.6	1662.5	1654.0
172.5°	1671.0	1666.8	1665.3	1675.3	1666.8
175°	1681.0	1676.7	1673.9	1683.8	1675.3
177.5°	1686.7	1682.4	1679.6	1688.1	1679.6
180°	1683.8	1683.8	1683.8	1683.8	1683.8

(END OF REPORT)