

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: P334544

Luminaire Tested: **S122IW-S1440U940-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334544
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-S1440U940-4F0-1E-UDD-1
Description: DEFINE 2 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 1440 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4458.3 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

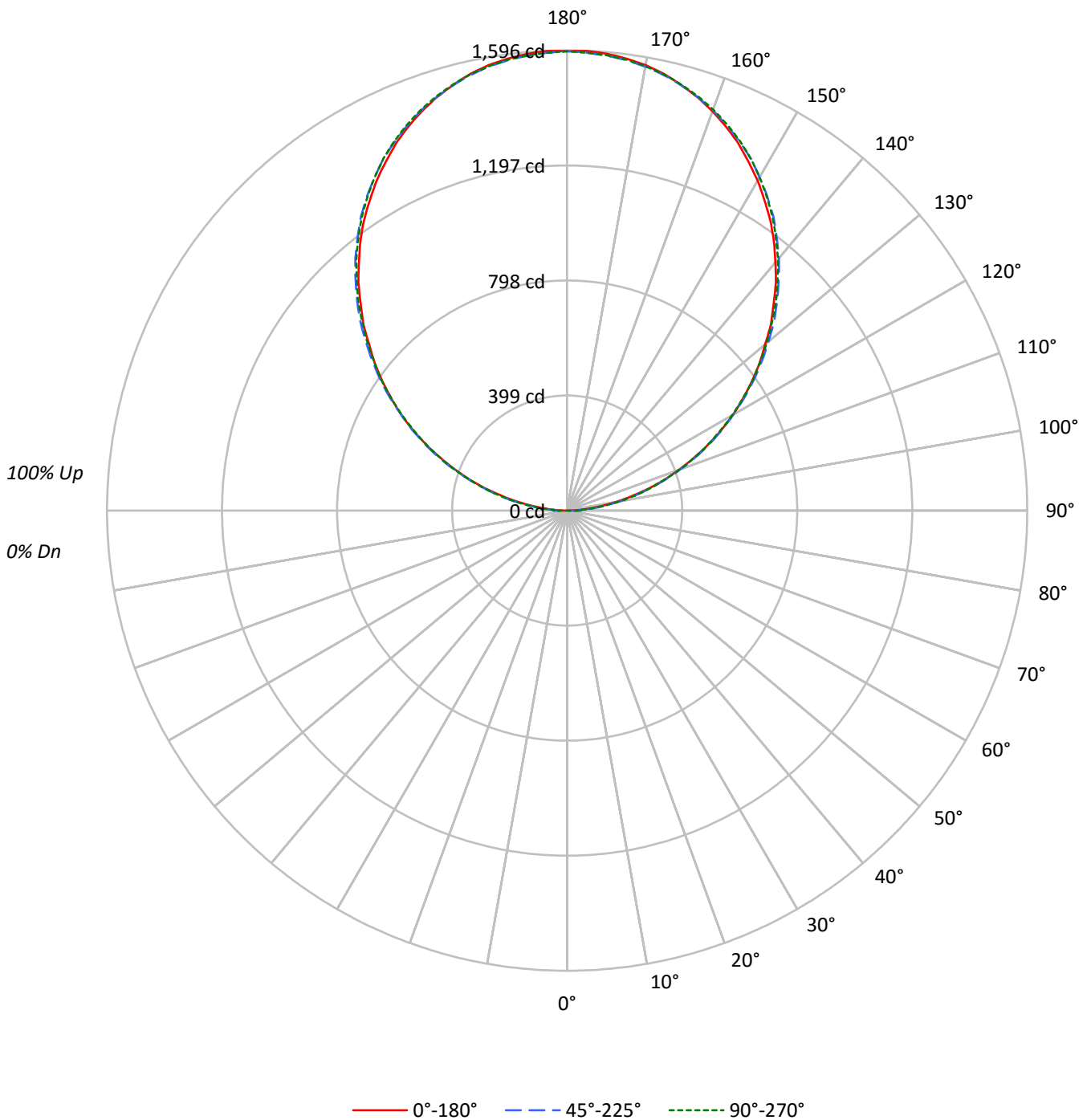
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4.5	0.1
90°-100°	98.5	2.2
100°-110°	313.3	7.0
110°-120°	536.1	12.0
120°-130°	705.0	15.8
130°-140°	791.3	17.7
140°-150°	776.0	17.4
150°-160°	650.9	14.6
160°-170°	431.7	9.7
170°-180°	150.9	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	4.5	0.1
90°-120°	947.9	21.3
90°-150°	3220.2	72.2
90°-180°	4454.0	99.9
0°-180°	4458.3	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	47	44	46	4
95°	70	83	86	86	83	78
105°	289	293	296	298	298	305
115°	538	546	543	542	538	532
125°	782	794	790	786	785	699
135°	1012	1027	1030	1028	1024	782
145°	1229	1238	1246	1248	1242	768
155°	1405	1409	1413	1420	1416	647
165°	1528	1527	1527	1536	1530	431
175°	1590	1586	1584	1593	1585	151
180°	1593	1593	1593	1593	1593	



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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	17.5	47.1	44.4	45.7
92.5°	29.6	40.3	41.7	43.0	43.0
95°	69.9	83.3	86.0	86.0	83.3
97.5°	117.0	129.1	134.4	134.4	134.4
100°	170.7	181.5	185.5	185.5	184.2
102.5°	227.2	235.3	240.6	242.0	240.6
105°	289.0	293.1	295.7	298.4	298.4
107.5°	350.9	356.2	356.2	357.6	350.9
110°	410.0	418.1	418.1	418.1	414.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	474.5	482.6	481.3	477.2	474.5
115°	537.7	545.8	543.1	541.8	537.7
117.5°	600.9	611.7	604.9	600.9	596.9
120°	664.1	674.8	664.1	664.1	660.1
122.5°	721.9	735.3	728.6	724.6	721.9
125°	782.4	794.5	790.5	786.4	785.1
127.5°	841.5	856.3	850.9	845.6	841.5
130°	896.7	914.1	911.4	908.8	903.4
132.5°	958.5	971.9	973.3	966.6	962.5
135°	1012.3	1027.1	1029.7	1028.4	1024.4
137.5°	1071.4	1083.5	1086.2	1084.9	1079.5
140°	1123.8	1135.9	1142.7	1142.7	1137.3
142.5°	1177.6	1189.7	1193.7	1195.1	1189.7
145°	1228.7	1238.1	1246.2	1247.5	1242.1
147.5°	1274.4	1286.5	1291.9	1294.6	1289.2
150°	1321.5	1329.5	1334.9	1338.9	1334.9
152.5°	1363.1	1371.2	1377.9	1383.3	1377.9
155°	1404.8	1408.8	1412.9	1419.6	1415.6
157.5°	1441.1	1443.8	1446.5	1455.9	1449.2
160°	1473.4	1476.0	1477.4	1485.5	1480.1
162.5°	1502.9	1502.9	1504.3	1513.7	1507.0
165°	1528.5	1527.1	1527.1	1536.5	1529.8
167.5°	1551.3	1547.3	1547.3	1556.7	1550.0
170°	1568.8	1564.8	1563.4	1572.8	1564.8
172.5°	1580.9	1576.9	1575.5	1584.9	1576.9
175°	1590.3	1586.3	1583.6	1593.0	1584.9
177.5°	1595.7	1591.7	1589.0	1597.0	1589.0
180°	1593.0	1593.0	1593.0	1593.0	1593.0

(END OF REPORT)