

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: P334529

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334529
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-S1440U927-4F0-1E-UDD-1
Description: DEFINE 2 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 1440 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

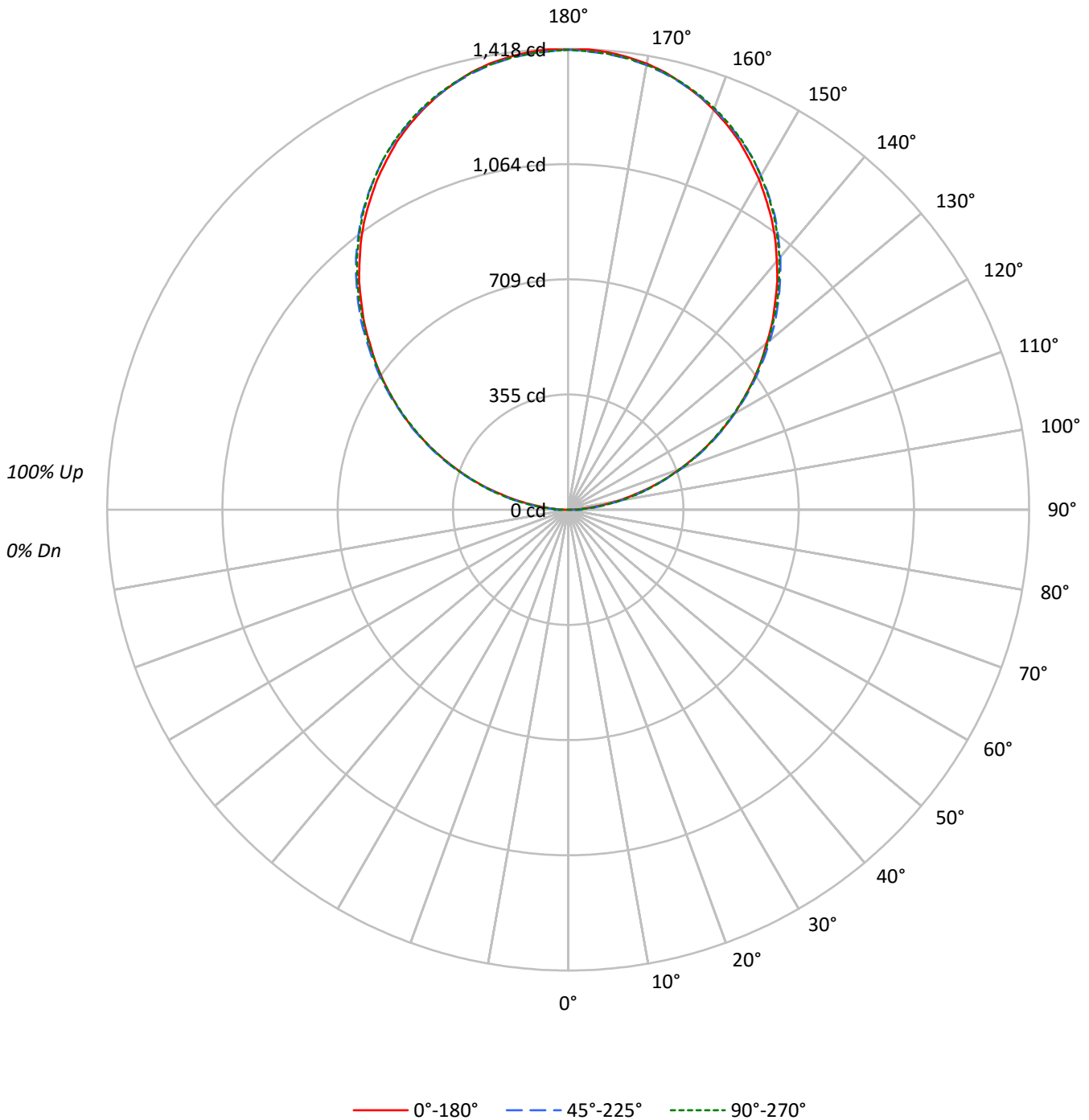
Lumens per Lamp: N/A
Luminaire Lumens: 3960.6 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

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°	4.0	0.1
90°-100°	87.5	2.2
100°-110°	278.3	7.0
110°-120°	476.2	12.0
120°-130°	626.3	15.8
130°-140°	703.0	17.7
140°-150°	689.4	17.4
150°-160°	578.3	14.6
160°-170°	383.5	9.7
170°-180°	134.0	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	4.0	0.1
90°-120°	842.0	21.3
90°-150°	2860.7	72.2
90°-180°	3957.0	99.9
0°-180°	3960.6	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	42	39	41	4
95°	62	74	76	76	74	69
105°	257	260	263	265	265	271
115°	478	485	482	481	478	473
125°	695	706	702	699	697	621
135°	899	912	915	914	910	695
145°	1092	1100	1107	1108	1104	682
155°	1248	1252	1255	1261	1258	574
165°	1358	1357	1357	1365	1359	383
175°	1413	1409	1407	1415	1408	134
180°	1415	1415	1415	1415	1415	



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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	15.5	41.8	39.4	40.6
92.5°	26.3	35.8	37.0	38.2	38.2
95°	62.1	74.0	76.4	76.4	74.0
97.5°	103.9	114.6	119.4	119.4	119.4
100°	151.7	161.2	164.8	164.8	163.6
102.5°	201.8	209.0	213.8	215.0	213.8
105°	256.8	260.3	262.7	265.1	265.1
107.5°	311.7	316.5	316.5	317.7	311.7
110°	364.3	371.4	371.4	371.4	367.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	421.6	428.7	427.5	424.0	421.6
115°	477.7	484.9	482.5	481.3	477.7
117.5°	533.8	543.4	537.4	533.8	530.3
120°	590.0	599.5	590.0	590.0	586.4
122.5°	641.3	653.3	647.3	643.7	641.3
125°	695.1	705.8	702.2	698.6	697.4
127.5°	747.6	760.7	756.0	751.2	747.6
130°	796.6	812.1	809.7	807.3	802.5
132.5°	851.5	863.5	864.6	858.7	855.1
135°	899.3	912.4	914.8	913.6	910.0
137.5°	951.8	962.6	965.0	963.8	959.0
140°	998.4	1009.2	1015.1	1015.1	1010.3
142.5°	1046.2	1056.9	1060.5	1061.7	1056.9
145°	1091.6	1099.9	1107.1	1108.3	1103.5
147.5°	1132.2	1142.9	1147.7	1150.1	1145.3
150°	1174.0	1181.1	1185.9	1189.5	1185.9
152.5°	1211.0	1218.1	1224.1	1228.9	1224.1
155°	1248.0	1251.6	1255.2	1261.1	1257.6
157.5°	1280.2	1282.6	1285.0	1293.4	1287.4
160°	1308.9	1311.3	1312.5	1319.7	1314.9
162.5°	1335.2	1335.2	1336.4	1344.7	1338.8
165°	1357.9	1356.7	1356.7	1365.0	1359.1
167.5°	1378.2	1374.6	1374.6	1383.0	1377.0
170°	1393.7	1390.1	1388.9	1397.3	1390.1
172.5°	1404.5	1400.9	1399.7	1408.0	1400.9
175°	1412.8	1409.2	1406.8	1415.2	1408.0
177.5°	1417.6	1414.0	1411.6	1418.8	1411.6
180°	1415.2	1415.2	1415.2	1415.2	1415.2

(END OF REPORT)