

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: P334513

Luminaire Tested: **S122IW-S1240U830-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334513
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-S1240U830-4F0-1E-UDD-1
Description: DEFINE 2 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 1240 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4053.1 lumens
Efficiency: N/A
Efficacy: 157.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

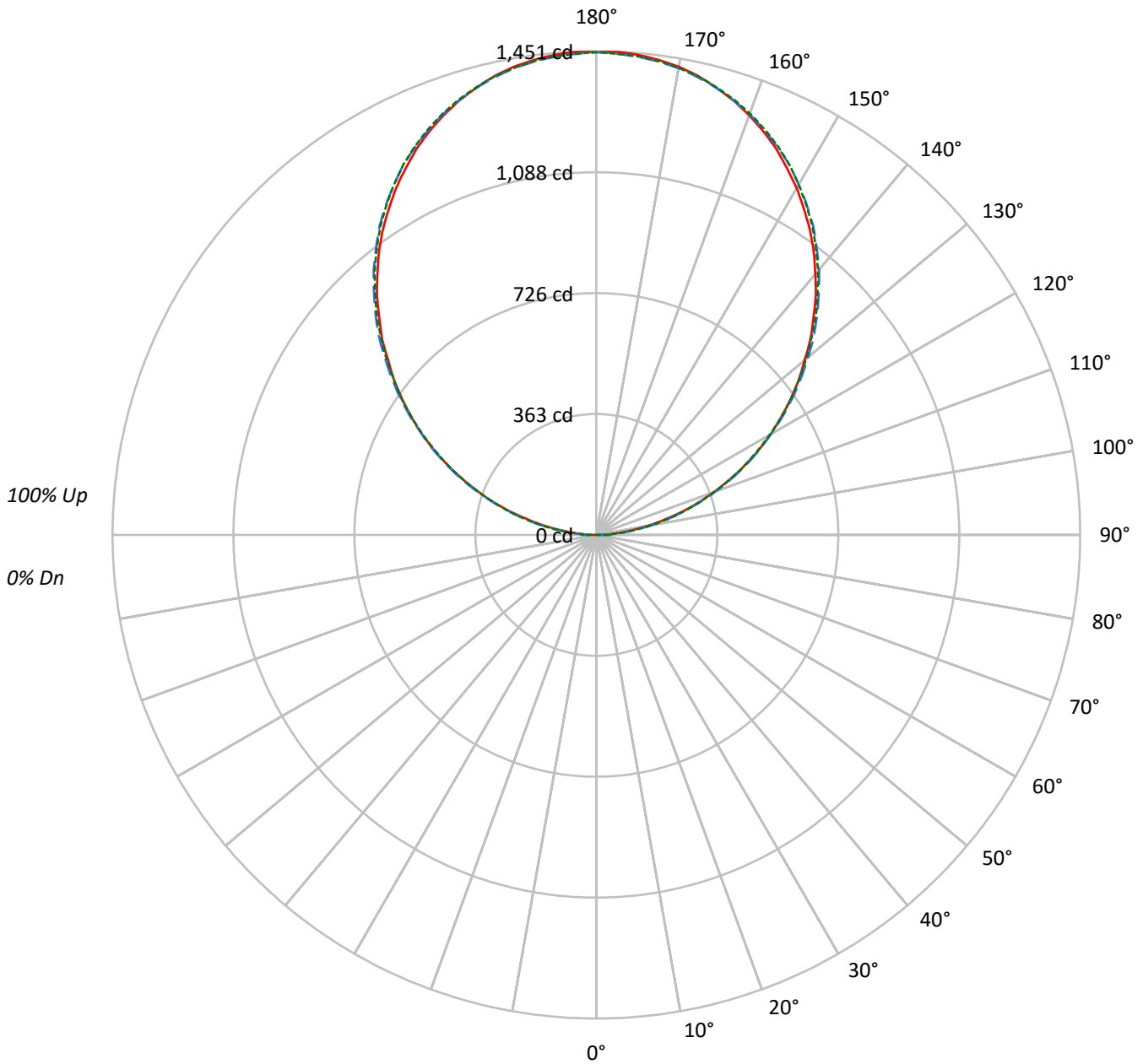
Input Watts (W): 25.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270°



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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°	89.6	2.2
100°-110°	284.8	7.0
110°-120°	487.3	12.0
120°-130°	640.9	15.8
130°-140°	719.4	17.7
140°-150°	705.5	17.4
150°-160°	591.8	14.6
160°-170°	392.5	9.7
170°-180°	137.2	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°	861.7	21.3
90°-150°	2927.6	72.2
90°-180°	4049.0	99.9
0°-180°	4053.1	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	40	42	4
95°	64	76	78	78	76	71
105°	263	266	269	271	271	277
115°	489	496	494	492	489	484
125°	711	722	719	715	714	636
135°	920	934	936	935	931	711
145°	1117	1126	1133	1134	1129	698
155°	1277	1281	1284	1291	1287	588
165°	1390	1388	1388	1397	1391	392
175°	1446	1442	1440	1448	1441	137
180°	1448	1448	1448	1448	1448	



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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	15.9	42.8	40.3	41.6
92.5°	26.9	36.7	37.9	39.1	39.1
95°	63.6	75.8	78.2	78.2	75.8
97.5°	106.3	117.3	122.2	122.2	122.2
100°	155.2	165.0	168.7	168.7	167.4
102.5°	206.5	213.9	218.8	220.0	218.8
105°	262.8	266.4	268.9	271.3	271.3
107.5°	319.0	323.9	323.9	325.1	319.0
110°	372.8	380.1	380.1	380.1	376.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	431.4	438.7	437.5	433.9	431.4
115°	488.9	496.2	493.7	492.5	488.9
117.5°	546.3	556.1	550.0	546.3	542.6
120°	603.7	613.5	603.7	603.7	600.1
122.5°	656.3	668.5	662.4	658.7	656.3
125°	711.3	722.3	718.6	715.0	713.7
127.5°	765.1	778.5	773.6	768.7	765.1
130°	815.2	831.1	828.6	826.2	821.3
132.5°	871.4	883.6	884.8	878.7	875.1
135°	920.3	933.7	936.2	934.9	931.3
137.5°	974.0	985.0	987.5	986.3	981.4
140°	1021.7	1032.7	1038.8	1038.8	1033.9
142.5°	1070.6	1081.6	1085.3	1086.5	1081.6
145°	1117.0	1125.6	1132.9	1134.1	1129.3
147.5°	1158.6	1169.6	1174.5	1176.9	1172.0
150°	1201.4	1208.7	1213.6	1217.3	1213.6
152.5°	1239.3	1246.6	1252.7	1257.6	1252.7
155°	1277.1	1280.8	1284.5	1290.6	1286.9
157.5°	1310.1	1312.6	1315.0	1323.6	1317.5
160°	1339.5	1341.9	1343.1	1350.5	1345.6
162.5°	1366.4	1366.4	1367.6	1376.1	1370.0
165°	1389.6	1388.4	1388.4	1396.9	1390.8
167.5°	1410.4	1406.7	1406.7	1415.2	1409.1
170°	1426.2	1422.6	1421.4	1429.9	1422.6
172.5°	1437.2	1433.6	1432.4	1440.9	1433.6
175°	1445.8	1442.1	1439.7	1448.2	1440.9
177.5°	1450.7	1447.0	1444.6	1451.9	1444.6
180°	1448.2	1448.2	1448.2	1448.2	1448.2

(END OF REPORT)