

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: P334518

Luminaire Tested: **S122IW-S1240U835-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334518
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-S1240U835-4F0-1E-UDD-1
Description: DEFINE 2 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 1240 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4300.2 lumens
Efficiency: N/A
Efficacy: 167.3 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

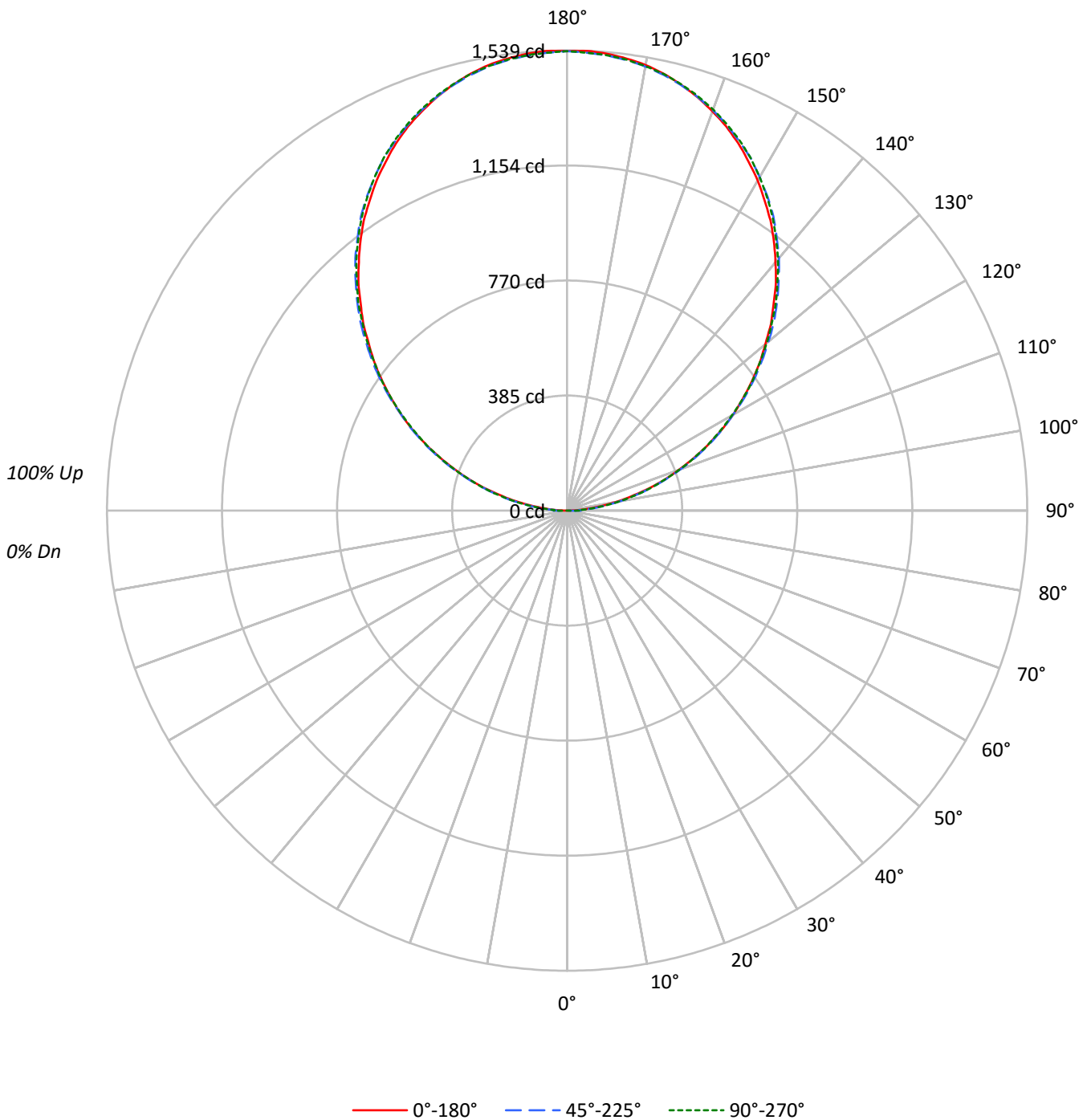
Input Watts (W): 25.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	4.4	0.1
90°-100°	95.0	2.2
100°-110°	302.2	7.0
110°-120°	517.0	12.0
120°-130°	680.0	15.8
130°-140°	763.3	17.7
140°-150°	748.5	17.4
150°-160°	627.9	14.6
160°-170°	416.4	9.7
170°-180°	145.5	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	4.4	0.1
90°-120°	914.3	21.3
90°-150°	3106.0	72.2
90°-180°	4296.0	99.9
0°-180°	4300.2	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	17	45	43	44	4
95°	67	80	83	83	80	75
105°	279	283	285	288	288	294
115°	519	526	524	522	519	513
125°	755	766	762	758	757	674
135°	976	991	993	992	988	754
145°	1185	1194	1202	1203	1198	740
155°	1355	1359	1363	1369	1365	624
165°	1474	1473	1473	1482	1476	416
175°	1534	1530	1527	1536	1529	146
180°	1536	1536	1536	1536	1536	



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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	16.9	45.4	42.8	44.1
92.5°	28.5	38.9	40.2	41.5	41.5
95°	67.4	80.4	83.0	83.0	80.4
97.5°	112.8	124.5	129.7	129.7	129.7
100°	164.7	175.0	178.9	178.9	177.6
102.5°	219.1	226.9	232.1	233.4	232.1
105°	278.8	282.7	285.3	287.9	287.9
107.5°	338.4	343.6	343.6	344.9	338.4
110°	395.5	403.3	403.3	403.3	399.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	457.7	465.5	464.2	460.3	457.7
115°	518.7	526.4	523.8	522.5	518.7
117.5°	579.6	590.0	583.5	579.6	575.7
120°	640.5	650.9	640.5	640.5	636.7
122.5°	696.3	709.3	702.8	698.9	696.3
125°	754.6	766.3	762.4	758.5	757.2
127.5°	811.7	826.0	820.8	815.6	811.7
130°	864.9	881.7	879.1	876.5	871.3
132.5°	924.5	937.5	938.8	932.3	928.4
135°	976.4	990.6	993.2	991.9	988.0
137.5°	1033.4	1045.1	1047.7	1046.4	1041.2
140°	1084.0	1095.7	1102.1	1102.1	1097.0
142.5°	1135.9	1147.5	1151.4	1152.7	1147.5
145°	1185.1	1194.2	1202.0	1203.3	1198.1
147.5°	1229.2	1240.9	1246.1	1248.7	1243.5
150°	1274.6	1282.4	1287.6	1291.5	1287.6
152.5°	1314.8	1322.6	1329.1	1334.2	1329.1
155°	1355.0	1358.9	1362.8	1369.3	1365.4
157.5°	1390.0	1392.6	1395.2	1404.3	1397.8
160°	1421.1	1423.7	1425.0	1432.8	1427.6
162.5°	1449.6	1449.6	1450.9	1460.0	1453.5
165°	1474.3	1473.0	1473.0	1482.1	1475.6
167.5°	1496.3	1492.4	1492.4	1501.5	1495.0
170°	1513.2	1509.3	1508.0	1517.1	1509.3
172.5°	1524.9	1521.0	1519.7	1528.7	1521.0
175°	1533.9	1530.0	1527.4	1536.5	1528.7
177.5°	1539.1	1535.2	1532.6	1540.4	1532.6
180°	1536.5	1536.5	1536.5	1536.5	1536.5

(END OF REPORT)