

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: P334538

Luminaire Tested: **S122IW-S1240U935-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334538
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-S1240U935-4F0-1E-UDD-1
Description: DEFINE 2 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 1240 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3702.5 lumens
Efficiency: N/A
Efficacy: 144.1 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

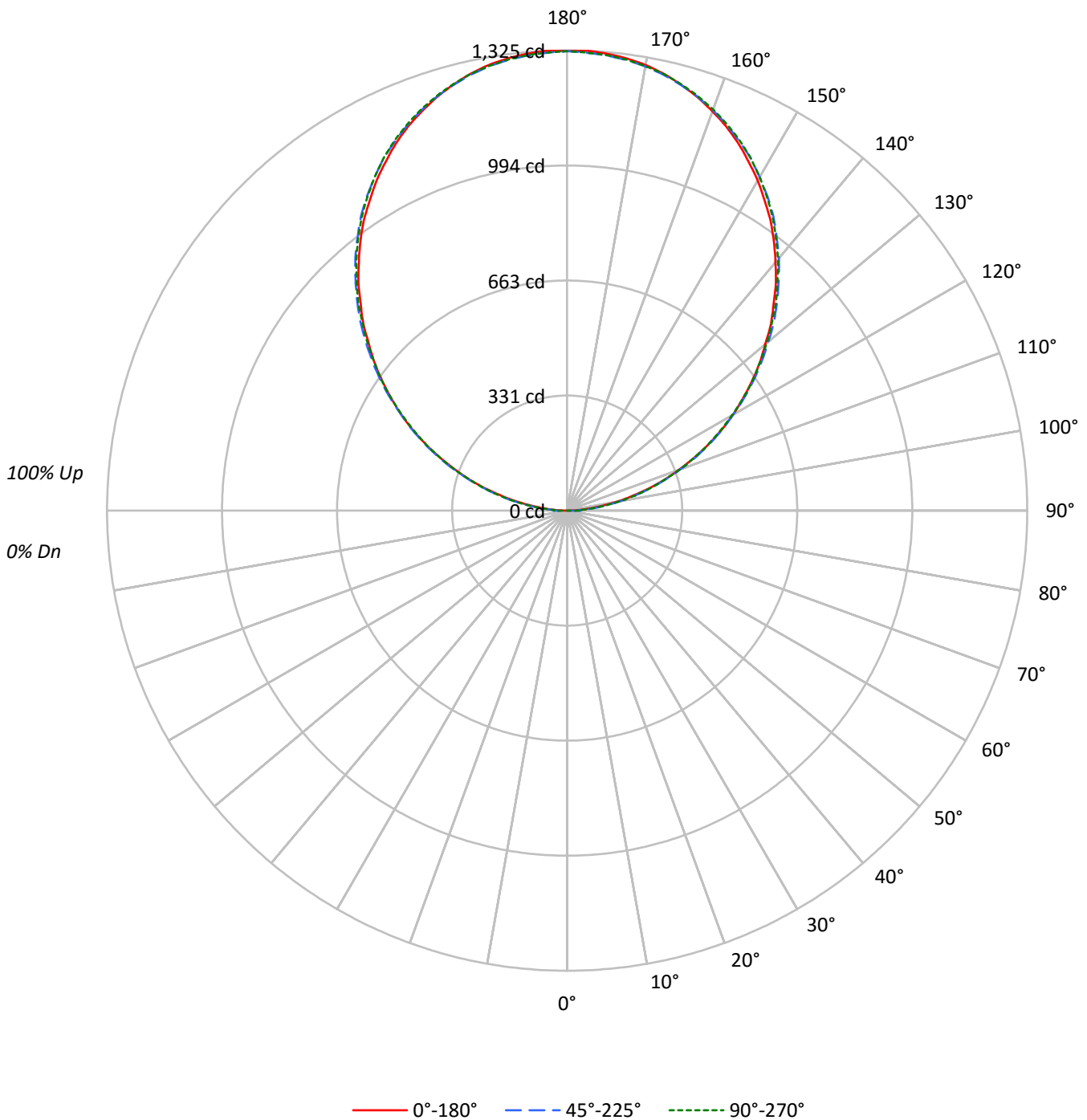
Input Watts (W): 25.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3.8	0.1
90°-100°	81.8	2.2
100°-110°	260.2	7.0
110°-120°	445.2	12.0
120°-130°	585.5	15.8
130°-140°	657.2	17.7
140°-150°	644.5	17.4
150°-160°	540.6	14.6
160°-170°	358.5	9.7
170°-180°	125.3	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.8	0.1
90°-120°	787.2	21.3
90°-150°	2674.3	72.2
90°-180°	3699.0	99.9
0°-180°	3702.5	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	14	39	37	38	4
95°	58	69	72	72	69	65
105°	240	243	246	248	248	253
115°	447	453	451	450	447	442
125°	650	660	656	653	652	581
135°	841	853	855	854	851	650
145°	1020	1028	1035	1036	1032	638
155°	1167	1170	1173	1179	1176	537
165°	1269	1268	1268	1276	1270	358
175°	1321	1317	1315	1323	1316	125
180°	1323	1323	1323	1323	1323	



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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°	1.1	14.5	39.1	36.8	38.0
92.5°	24.6	33.5	34.6	35.7	35.7
95°	58.1	69.2	71.5	71.5	69.2
97.5°	97.1	107.2	111.6	111.6	111.6
100°	141.8	150.7	154.1	154.1	152.9
102.5°	188.7	195.4	199.8	201.0	199.8
105°	240.0	243.4	245.6	247.8	247.8
107.5°	291.4	295.8	295.8	297.0	291.4
110°	340.5	347.2	347.2	347.2	343.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	394.1	400.8	399.7	396.3	394.1
115°	446.6	453.3	451.0	449.9	446.6
117.5°	499.0	508.0	502.4	499.0	495.7
120°	551.5	560.4	551.5	551.5	548.2
122.5°	599.5	610.7	605.1	601.7	599.5
125°	649.8	659.8	656.4	653.1	652.0
127.5°	698.9	711.2	706.7	702.2	698.9
130°	744.6	759.2	756.9	754.7	750.2
132.5°	796.0	807.2	808.3	802.7	799.4
135°	840.7	852.9	855.2	854.1	850.7
137.5°	889.8	899.8	902.1	900.9	896.5
140°	933.3	943.4	948.9	948.9	944.5
142.5°	978.0	988.0	991.4	992.5	988.0
145°	1020.4	1028.2	1034.9	1036.0	1031.6
147.5°	1058.4	1068.4	1072.9	1075.1	1070.6
150°	1097.4	1104.1	1108.6	1111.9	1108.6
152.5°	1132.0	1138.7	1144.3	1148.8	1144.3
155°	1166.6	1170.0	1173.3	1178.9	1175.6
157.5°	1196.8	1199.0	1201.3	1209.1	1203.5
160°	1223.6	1225.8	1226.9	1233.6	1229.2
162.5°	1248.1	1248.1	1249.3	1257.1	1251.5
165°	1269.4	1268.2	1268.2	1276.1	1270.5
167.5°	1288.3	1285.0	1285.0	1292.8	1287.2
170°	1302.9	1299.5	1298.4	1306.2	1299.5
172.5°	1312.9	1309.5	1308.4	1316.2	1309.5
175°	1320.7	1317.4	1315.1	1322.9	1316.2
177.5°	1325.2	1321.8	1319.6	1326.3	1319.6
180°	1322.9	1322.9	1322.9	1322.9	1322.9

(END OF REPORT)