

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: P334540

Luminaire Tested: **S122IW-S435U940-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334540
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-S435U940-4F0-1E-UDD-1
Description: DEFINE 2 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 435 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1339.8 lumens
Efficiency: N/A
Efficacy: 154.0 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

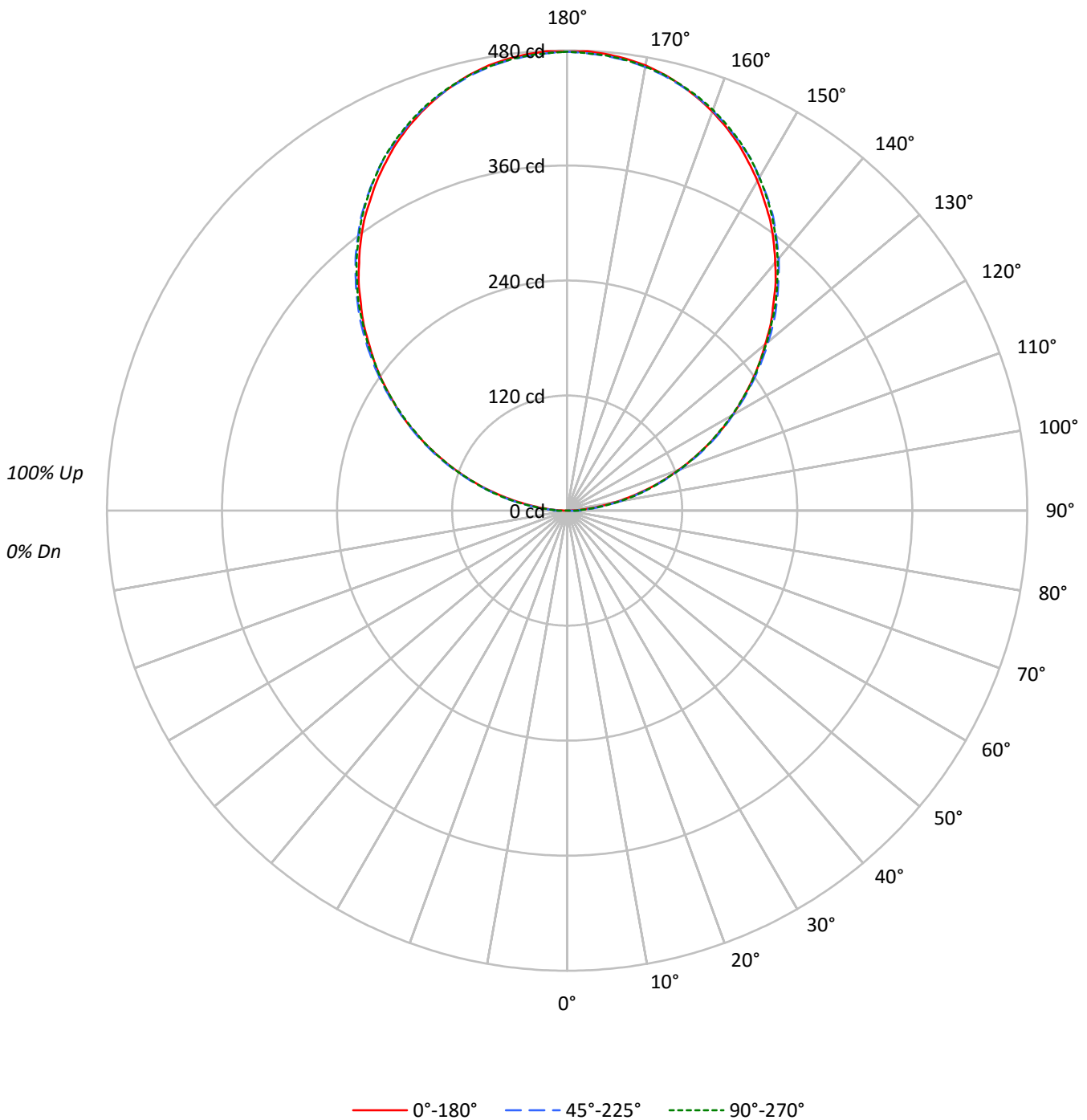
Input Watts (W): 8.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1.4	0.1
90°-100°	29.6	2.2
100°-110°	94.2	7.0
110°-120°	161.1	12.0
120°-130°	211.9	15.8
130°-140°	237.8	17.8
140°-150°	233.2	17.4
150°-160°	195.6	14.6
160°-170°	129.7	9.7
170°-180°	45.3	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.4	0.1
90°-120°	284.8	21.3
90°-150°	967.7	72.2
90°-180°	1338.0	99.9
0°-180°	1339.8	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°	0	5	14	13	14	1
95°	21	25	26	26	25	23
105°	87	88	89	90	90	92
115°	162	164	163	163	162	160
125°	235	239	238	236	236	210
135°	304	309	310	309	308	235
145°	369	372	374	375	373	231
155°	422	423	425	427	425	194
165°	459	459	459	462	460	130
175°	478	477	476	479	476	45
180°	479	479	479	479	479	



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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°	0.4	5.3	14.1	13.3	13.7
92.5°	8.9	12.1	12.5	12.9	12.9
95°	21.0	25.0	25.9	25.9	25.0
97.5°	35.1	38.8	40.4	40.4	40.4
100°	51.3	54.5	55.8	55.8	55.3
102.5°	68.3	70.7	72.3	72.7	72.3
105°	86.9	88.1	88.9	89.7	89.7
107.5°	105.4	107.1	107.1	107.5	105.4
110°	123.2	125.6	125.6	125.6	124.4



TEST NUMBER: P334540

CATALOG NUMBER: S122IW-S435U940-4F0-1E-UDD-1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	142.6	145.0	144.6	143.4	142.6
115°	161.6	164.0	163.2	162.8	161.6
117.5°	180.6	183.8	181.8	180.6	179.4
120°	199.6	202.8	199.6	199.6	198.4
122.5°	216.9	221.0	219.0	217.8	216.9
125°	235.1	238.8	237.5	236.3	235.9
127.5°	252.9	257.3	255.7	254.1	252.9
130°	269.5	274.7	273.9	273.1	271.5
132.5°	288.0	292.1	292.5	290.5	289.3
135°	304.2	308.7	309.5	309.1	307.8
137.5°	322.0	325.6	326.4	326.0	324.4
140°	337.7	341.4	343.4	343.4	341.8
142.5°	353.9	357.5	358.7	359.2	357.5
145°	369.3	372.1	374.5	374.9	373.3
147.5°	383.0	386.6	388.2	389.0	387.4
150°	397.1	399.6	401.2	402.4	401.2
152.5°	409.7	412.1	414.1	415.7	414.1
155°	422.2	423.4	424.6	426.6	425.4
157.5°	433.1	433.9	434.7	437.5	435.5
160°	442.8	443.6	444.0	446.4	444.8
162.5°	451.7	451.7	452.1	454.9	452.9
165°	459.3	458.9	458.9	461.8	459.7
167.5°	466.2	465.0	465.0	467.8	465.8
170°	471.5	470.3	469.8	472.7	470.3
172.5°	475.1	473.9	473.5	476.3	473.9
175°	477.9	476.7	475.9	478.7	476.3
177.5°	479.5	478.3	477.5	479.9	477.5
180°	478.7	478.7	478.7	478.7	478.7

(END OF REPORT)