

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: P335055

Luminaire Tested: **S125IW-S470U930-4F0-1E-UDD-1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P335055  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125IW-S470U930-4F0-1E-UDD-1  
Description: DEFINE 5 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
WALL MOUNT, 470 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1326.0 lumens  
Efficiency: N/A  
Efficacy: 152.4 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

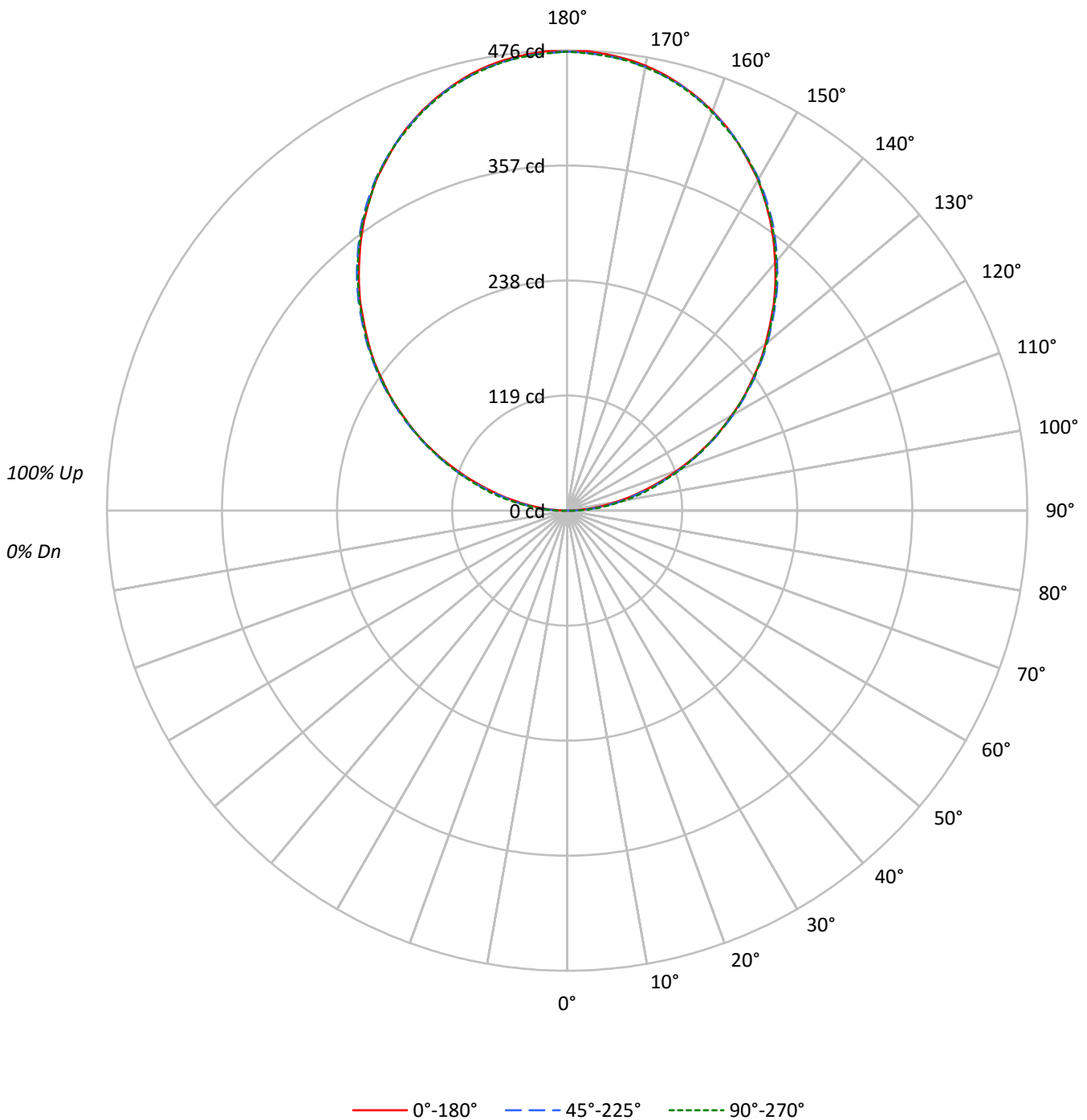
Input Watts (W): 8.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P335055

CATALOG NUMBER: S125IW-S470U930-4F0-1E-UDD-1

### Luminous Intensity Polar Plot





TEST NUMBER: P335055

CATALOG NUMBER: S125IW-S470U930-4F0-1E-UDD-1

**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



TEST NUMBER: P335055

CATALOG NUMBER: S125IW-S470U930-4F0-1E-UDD-1

**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°	0.7	0.1
90°-100°	31.6	2.4
100°-110°	93.8	7.1
110°-120°	159.1	12.0
120°-130°	209.4	15.8
130°-140°	234.7	17.7
140°-150°	230.0	17.3
150°-160°	193.2	14.6
160°-170°	128.4	9.7
170°-180°	44.9	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.7	0.1
90°-120°	284.5	21.5
90°-150°	958.6	72.3
90°-180°	1325.0	99.9
0°-180°	1326.0	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	3	6	8	9	2
95°	24	25	28	31	32	25
105°	84	86	88	90	92	90
115°	159	161	162	161	161	158
125°	232	235	235	234	234	208
135°	302	304	305	305	303	233
145°	366	368	369	369	368	229
155°	419	419	419	421	419	193
165°	456	455	455	457	454	129
175°	474	472	472	474	472	45
180°	475	475	475	475	475	



TEST NUMBER: P335055

CATALOG NUMBER: S125IW-S470U930-4F0-1E-UDD-1

**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	3.3	5.9	7.8	8.9
92.5°	11.1	12.9	16.3	18.8	19.6
95°	24.0	24.8	28.5	31.0	31.8
97.5°	37.0	37.3	42.5	44.7	45.1
100°	51.7	51.7	56.5	59.9	60.6
102.5°	67.6	69.5	71.3	75.0	76.1
105°	84.3	86.1	88.3	90.5	91.6
107.5°	102.4	104.2	106.1	107.2	107.2
110°	121.2	123.1	124.2	125.3	124.9



TEST NUMBER: P335055

CATALOG NUMBER: S125IW-S470U930-4F0-1E-UDD-1

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	140.4	141.2	142.6	143.0	142.3
115°	159.3	160.7	161.5	161.1	160.7
117.5°	178.5	178.9	179.6	180.0	178.5
120°	196.2	198.1	198.4	198.4	197.0
122.5°	215.4	215.8	216.9	216.5	215.4
125°	232.4	234.6	235.0	234.3	233.9
127.5°	251.3	252.4	252.8	252.4	251.6
130°	267.9	269.8	270.5	270.1	269.4
132.5°	284.5	287.9	287.5	287.1	286.0
135°	302.3	304.5	304.9	304.9	303.4
137.5°	318.9	321.1	321.9	322.2	320.4
140°	334.8	336.6	337.7	338.5	336.6
142.5°	350.7	352.2	353.6	354.0	352.2
145°	366.2	367.7	368.8	368.8	367.7
147.5°	380.6	381.7	382.5	383.6	380.6
150°	395.0	394.7	396.1	396.1	395.4
152.5°	406.8	407.6	408.0	409.1	407.6
155°	419.0	419.0	419.4	420.9	419.0
157.5°	430.1	429.4	429.8	431.2	428.6
160°	439.7	438.6	439.0	440.5	438.6
162.5°	448.2	447.5	447.5	449.3	447.1
165°	455.6	454.9	455.3	456.7	454.5
167.5°	462.3	460.8	460.8	463.0	460.8
170°	467.4	466.0	466.0	468.2	465.6
172.5°	471.1	469.7	469.7	471.9	469.7
175°	473.7	472.3	472.3	474.5	471.9
177.5°	475.6	474.1	473.7	475.9	473.4
180°	474.8	474.8	474.8	474.8	474.8

(END OF REPORT)