

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: P335060

Luminaire Tested: **S125IW-S470U935-4F0-1E-UDD-1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P335060  
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-S470U935-4F0-1E-UDD-1  
Description: DEFINE 5 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
WALL MOUNT, 470 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1400.3 lumens  
Efficiency: N/A  
Efficacy: 161.0 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

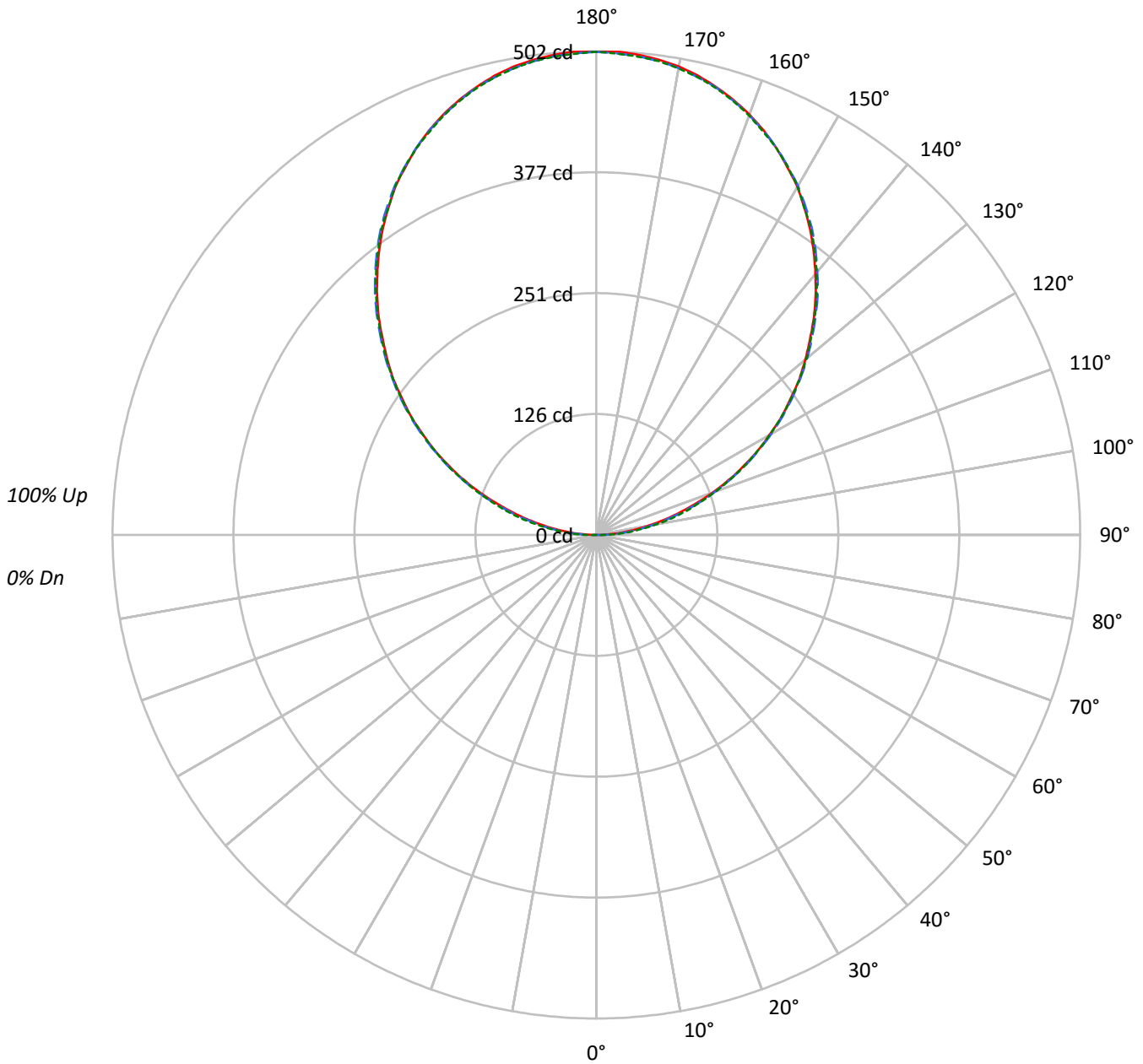
Input Watts (W): 8.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	0.8	0.1
90°-100°	33.3	2.4
100°-110°	99.1	7.1
110°-120°	168.0	12.0
120°-130°	221.2	15.8
130°-140°	247.8	17.7
140°-150°	242.9	17.3
150°-160°	204.0	14.6
160°-170°	135.6	9.7
170°-180°	47.5	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.8	0.1
90°-120°	300.4	21.5
90°-150°	1012.4	72.3
90°-180°	1400.0	100.0
0°-180°	1400.3	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	4	6	8	9	2
95°	25	26	30	33	34	27
105°	89	91	93	96	97	95
115°	168	170	170	170	170	166
125°	246	248	248	247	247	220
135°	319	322	322	322	320	246
145°	387	388	390	390	388	242
155°	442	442	443	444	442	204
165°	481	480	481	482	480	136
175°	500	499	499	501	498	48
180°	502	502	502	502	502	



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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	3.5	6.2	8.2	9.4
92.5°	11.7	13.7	17.2	19.9	20.7
95°	25.4	26.1	30.0	32.8	33.6
97.5°	39.0	39.4	44.9	47.2	47.6
100°	54.6	54.6	59.7	63.2	64.0
102.5°	71.4	73.4	75.3	79.2	80.4
105°	89.0	90.9	93.3	95.6	96.8
107.5°	108.1	110.0	112.0	113.2	113.2
110°	128.0	129.9	131.1	132.3	131.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	148.3	149.1	150.6	151.0	150.2
115°	168.2	169.8	170.5	170.1	169.8
117.5°	188.5	188.9	189.7	190.0	188.5
120°	207.2	209.2	209.6	209.6	208.0
122.5°	227.5	227.9	229.1	228.7	227.5
125°	245.5	247.8	248.2	247.4	247.0
127.5°	265.4	266.5	266.9	266.5	265.8
130°	282.9	284.9	285.7	285.3	284.5
132.5°	300.5	304.0	303.6	303.2	302.0
135°	319.2	321.6	321.9	321.9	320.4
137.5°	336.8	339.1	339.9	340.3	338.3
140°	353.6	355.5	356.7	357.5	355.5
142.5°	370.3	371.9	373.5	373.8	371.9
145°	386.7	388.3	389.5	389.5	388.3
147.5°	401.9	403.1	403.9	405.1	401.9
150°	417.2	416.8	418.3	418.3	417.6
152.5°	429.7	430.4	430.8	432.0	430.4
155°	442.5	442.5	442.9	444.5	442.5
157.5°	454.2	453.5	453.8	455.4	452.7
160°	464.4	463.2	463.6	465.2	463.2
162.5°	473.4	472.6	472.6	474.5	472.2
165°	481.2	480.4	480.8	482.3	480.0
167.5°	488.2	486.6	486.6	489.0	486.6
170°	493.7	492.1	492.1	494.4	491.7
172.5°	497.6	496.0	496.0	498.3	496.0
175°	500.3	498.7	498.7	501.1	498.3
177.5°	502.2	500.7	500.3	502.6	499.9
180°	501.5	501.5	501.5	501.5	501.5

(END OF REPORT)