

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: P335091

Luminaire Tested: **S125IP-S590U930-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P335091
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125IP-S590U930-4F0-1E-UDD
Description: DEFINE 5 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 590 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1928.5 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

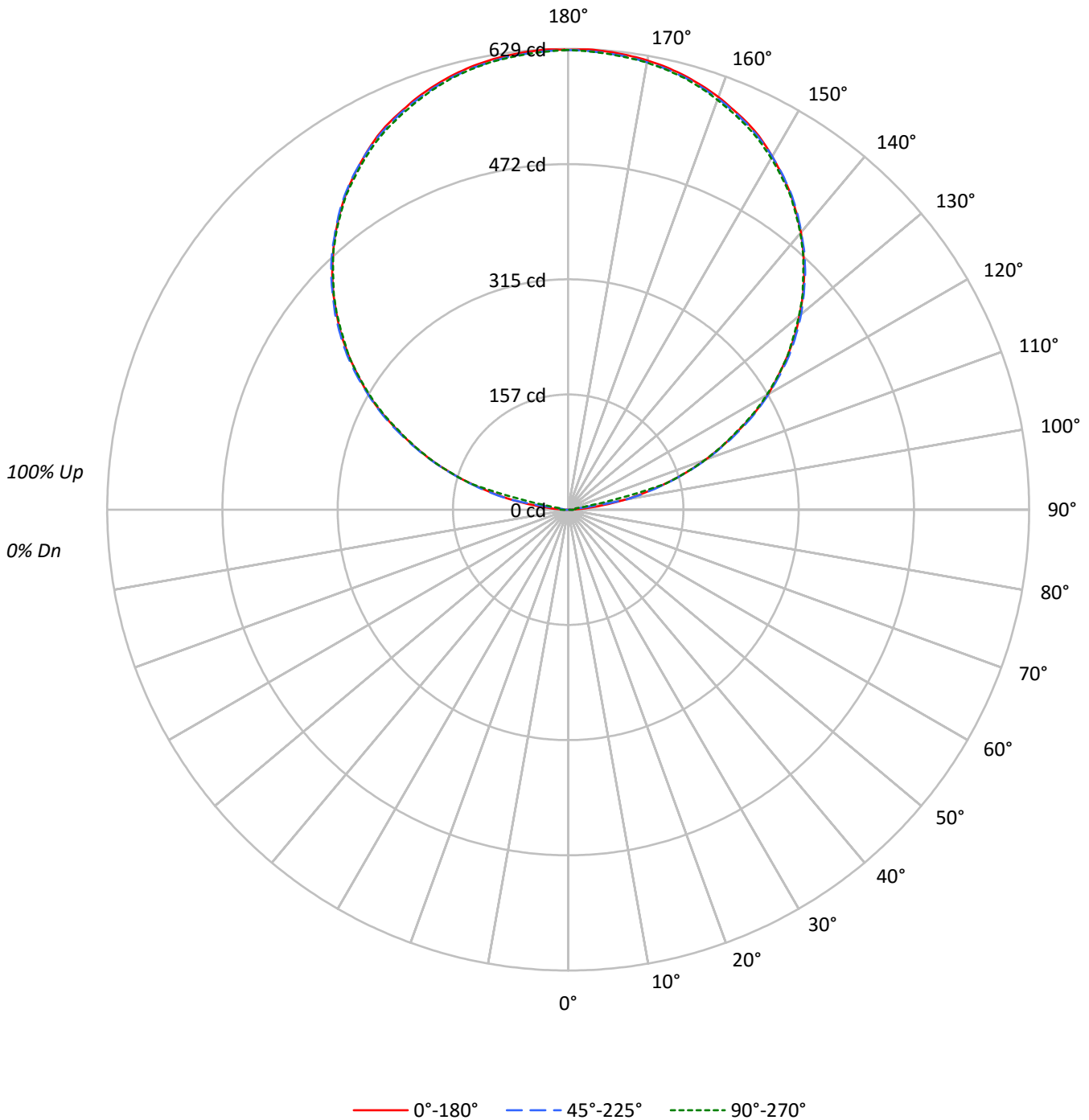
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	0.9	0.0
90°-100°	21.3	1.1
100°-110°	141.6	7.3
110°-120°	255.0	13.2
120°-130°	327.3	17.0
130°-140°	352.1	18.3
140°-150°	330.4	17.1
150°-160°	267.3	13.9
160°-170°	172.9	9.0
170°-180°	59.6	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.9	0.0
90°-120°	417.9	21.7
90°-150°	1427.8	74.0
90°-180°	1928.0	100.0
0°-180°	1928.5	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°	0	4	7	10	11	1
95°	26	25	7	10	10	32
105°	137	139	139	139	138	145
115°	257	259	260	258	255	255
125°	365	368	368	366	365	326
135°	455	458	457	456	454	351
145°	528	529	529	529	527	330
155°	581	579	580	581	577	268
165°	614	611	611	614	610	173
175°	628	625	625	629	625	60
180°	628	628	628	628	628	



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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°	0.5	4.2	7.4	9.8	11.2
92.5°	8.8	4.7	7.4	9.8	10.2
95°	26.5	25.1	7.4	9.8	9.8
97.5°	49.8	52.6	8.4	9.3	9.8
100°	77.7	79.1	80.9	11.6	9.8
102.5°	106.1	107.9	108.8	109.8	70.7
105°	136.8	138.6	138.6	138.6	138.2
107.5°	168.4	168.4	169.3	169.8	167.9
110°	199.1	199.1	200.0	198.6	199.1



TEST NUMBER: P335091

CATALOG NUMBER: S125IP-S590U930-4F0-1E-UDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	227.9	229.3	229.8	227.9	227.0
115°	256.8	259.1	259.6	257.7	254.9
117.5°	287.0	287.0	288.9	286.1	285.1
120°	314.9	314.4	315.8	314.9	312.6
122.5°	339.6	341.9	342.4	341.4	338.6
125°	365.2	368.4	368.4	366.5	365.2
127.5°	389.8	392.1	391.7	390.7	387.0
130°	412.1	414.5	414.9	413.5	411.2
132.5°	434.5	437.3	435.9	435.9	433.5
135°	455.4	458.2	457.3	456.3	453.5
137.5°	474.9	477.7	476.8	476.8	474.5
140°	494.0	494.9	494.5	495.4	492.6
142.5°	511.2	511.7	512.6	512.6	509.8
145°	528.0	528.9	528.9	529.4	526.6
147.5°	542.8	542.8	543.3	543.8	540.5
150°	556.8	555.9	556.8	557.7	554.0
152.5°	570.3	568.0	568.9	569.8	566.6
155°	581.4	578.7	579.6	581.0	577.3
157.5°	590.3	588.9	588.9	590.3	586.6
160°	599.6	596.8	597.3	599.1	595.4
162.5°	607.0	604.2	604.7	607.5	603.3
165°	613.5	610.8	611.2	614.0	610.3
167.5°	618.7	615.9	616.3	619.6	615.4
170°	622.8	619.6	620.1	623.8	619.6
172.5°	625.6	622.4	623.3	626.6	622.4
175°	627.5	624.7	625.2	628.9	624.7
177.5°	628.9	626.1	626.6	629.8	626.1
180°	627.5	627.5	627.5	627.5	627.5

(END OF REPORT)