

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: P335101

Luminaire Tested: **S125IP-S590U940-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P335101  
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-S590U940-4F0-1E-UDD  
Description: DEFINE 5 INDIRECT LED LUMINAIRE, NO LENS  
PENDANT MOUNT, 590 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2109.2 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

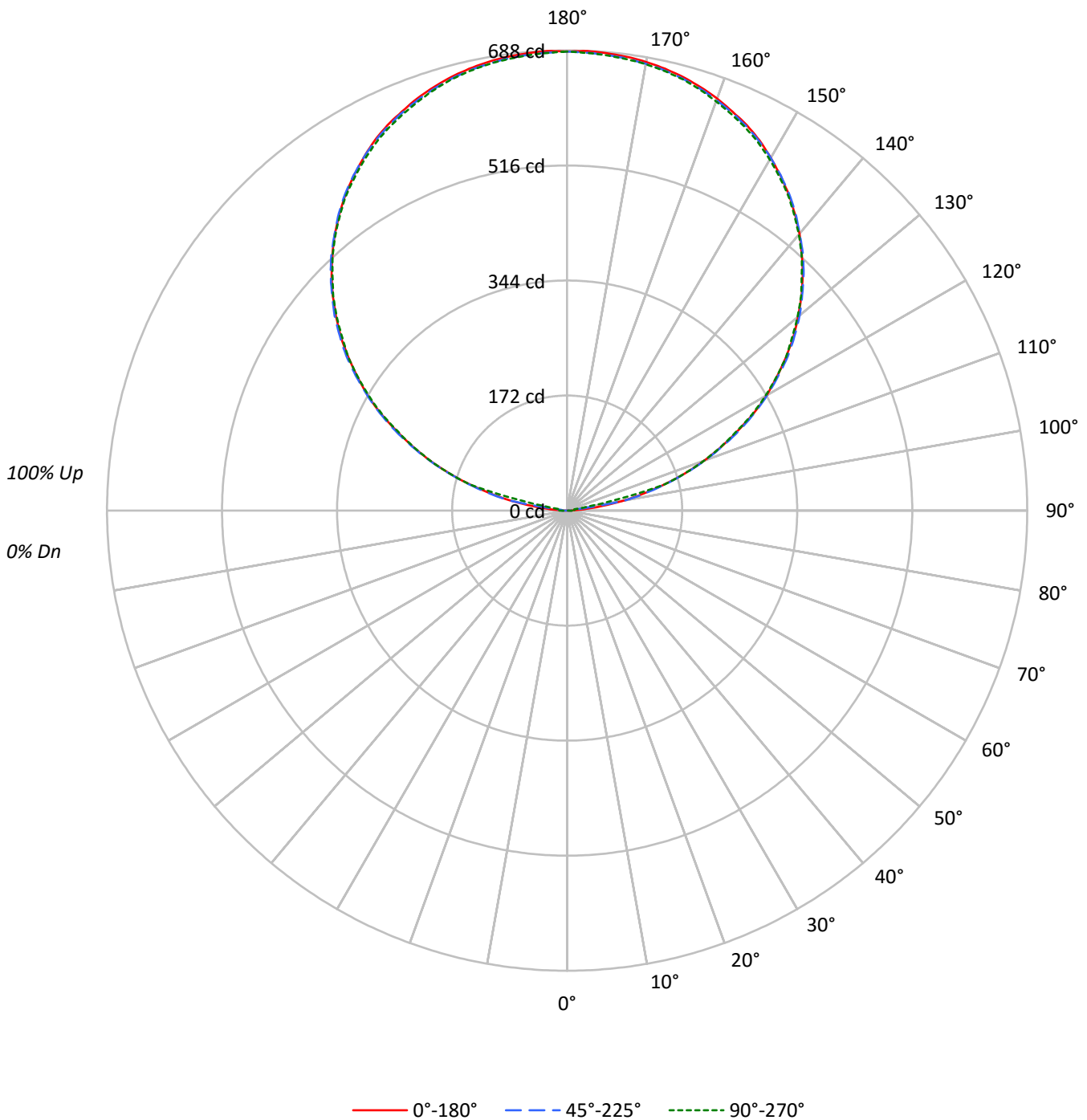
Input Watts (W): 18.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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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°	1.0	0.0
90°-100°	23.3	1.1
100°-110°	154.9	7.3
110°-120°	278.9	13.2
120°-130°	358.0	17.0
130°-140°	385.1	18.3
140°-150°	361.4	17.1
150°-160°	292.3	13.9
160°-170°	189.1	9.0
170°-180°	65.2	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.0	0.0
90°-120°	457.1	21.7
90°-150°	1561.6	74.0
90°-180°	2108.0	99.9
0°-180°	2109.2	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	8	11	12	1
95°	29	28	8	11	11	36
105°	150	152	152	152	151	158
115°	281	283	284	282	279	278
125°	399	403	403	401	399	357
135°	498	501	500	499	496	384
145°	577	578	578	579	576	361
155°	636	633	634	635	631	293
165°	671	668	668	672	668	190
175°	686	683	684	688	683	65
180°	686	686	686	686	686	



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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	4.6	8.1	10.7	12.2
92.5°	9.7	5.1	8.1	10.7	11.2
95°	29.0	27.5	8.1	10.7	10.7
97.5°	54.4	57.5	9.2	10.2	10.7
100°	85.0	86.5	88.5	12.7	10.7
102.5°	116.0	118.0	119.0	120.1	77.3
105°	149.6	151.6	151.6	151.6	151.1
107.5°	184.2	184.2	185.2	185.7	183.7
110°	217.7	217.7	218.8	217.2	217.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	249.3	250.8	251.3	249.3	248.3
115°	280.8	283.4	283.9	281.9	278.8
117.5°	313.9	313.9	315.9	312.9	311.9
120°	344.4	343.9	345.4	344.4	341.9
122.5°	371.4	373.9	374.4	373.4	370.4
125°	399.4	402.9	402.9	400.9	399.4
127.5°	426.3	428.9	428.4	427.4	423.3
130°	450.8	453.3	453.8	452.3	449.7
132.5°	475.2	478.2	476.7	476.7	474.2
135°	498.1	501.1	500.1	499.1	496.0
137.5°	519.4	522.5	521.5	521.5	518.9
140°	540.3	541.3	540.8	541.8	538.8
142.5°	559.1	559.6	560.6	560.6	557.6
145°	577.4	578.5	578.5	579.0	575.9
147.5°	593.7	593.7	594.2	594.7	591.2
150°	609.0	608.0	609.0	610.0	605.9
152.5°	623.7	621.2	622.2	623.2	619.7
155°	635.9	632.9	633.9	635.4	631.4
157.5°	645.6	644.1	644.1	645.6	641.5
160°	655.8	652.7	653.2	655.3	651.2
162.5°	663.9	660.9	661.4	664.4	659.9
165°	671.0	668.0	668.5	671.6	667.5
167.5°	676.6	673.6	674.1	677.7	673.1
170°	681.2	677.7	678.2	682.2	677.7
172.5°	684.3	680.7	681.7	685.3	680.7
175°	686.3	683.3	683.8	687.8	683.3
177.5°	687.8	684.8	685.3	688.9	684.8
180°	686.3	686.3	686.3	686.3	686.3

(END OF REPORT)