

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: P335102

Luminaire Tested: **S125IP-S810U940-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P335102  
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-S810U940-4F0-1E-UDD  
Description: DEFINE 5 INDIRECT LED LUMINAIRE, NO LENS  
PENDANT MOUNT, 810 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2891.1 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

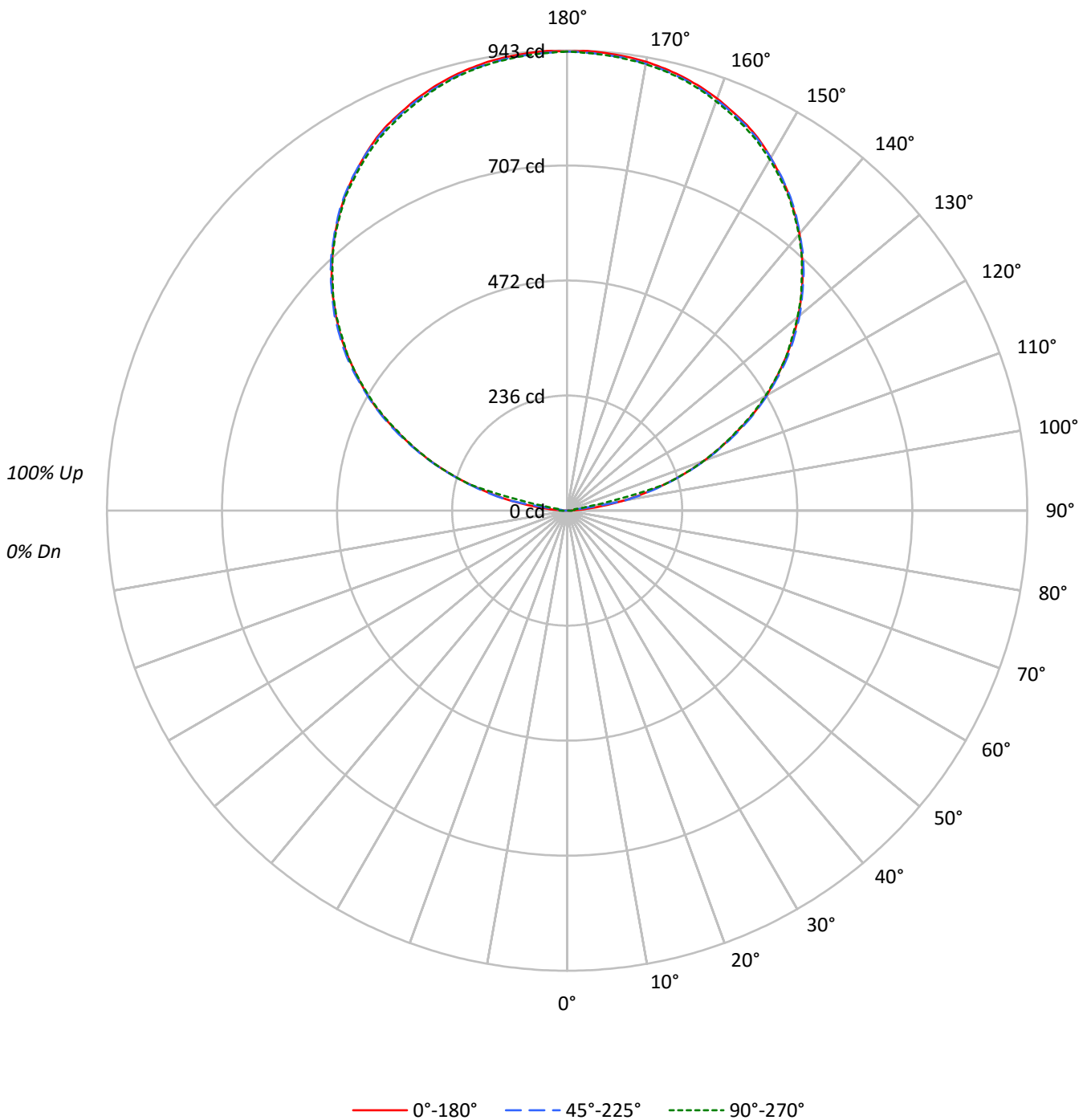
Input Watts (W): 26.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0.0
90°-100°	31.9	1.1
100°-110°	212.3	7.3
110°-120°	382.3	13.2
120°-130°	490.8	17.0
130°-140°	527.8	18.3
140°-150°	495.4	17.1
150°-160°	400.7	13.9
160°-170°	259.1	9.0
170°-180°	89.4	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.4	0.0
90°-120°	626.6	21.7
90°-150°	2140.5	74.0
90°-180°	2890.0	100.0
0°-180°	2891.1	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°	1	6	11	15	17	2
95°	40	38	11	15	15	49
105°	205	208	208	208	207	217
115°	385	388	389	386	382	382
125°	547	552	552	550	547	489
135°	683	687	686	684	680	526
145°	792	793	793	794	789	495
155°	872	868	869	871	865	402
165°	920	916	916	920	915	260
175°	941	937	937	943	937	90
180°	941	941	941	941	941	



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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°	0.7	6.3	11.2	14.6	16.7
92.5°	13.2	7.0	11.2	14.6	15.3
95°	39.7	37.7	11.2	14.6	14.6
97.5°	74.6	78.8	12.6	13.9	14.6
100°	116.5	118.6	121.3	17.4	14.6
102.5°	159.0	161.8	163.2	164.6	106.0
105°	205.0	207.8	207.8	207.8	207.1
107.5°	252.4	252.4	253.8	254.5	251.7
110°	298.5	298.5	299.9	297.8	298.5



TEST NUMBER: P335102

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	341.7	343.8	344.5	341.7	340.3
115°	384.9	388.4	389.1	386.3	382.2
117.5°	430.3	430.3	433.1	428.9	427.5
120°	472.1	471.4	473.5	472.1	468.6
122.5°	509.1	512.6	513.3	511.9	507.7
125°	547.4	552.3	552.3	549.5	547.4
127.5°	584.4	587.9	587.2	585.8	580.2
130°	617.9	621.3	622.0	620.0	616.5
132.5°	651.3	655.5	653.4	653.4	649.9
135°	682.7	686.9	685.5	684.1	679.9
137.5°	712.0	716.2	714.8	714.8	711.3
140°	740.6	742.0	741.3	742.7	738.5
142.5°	766.4	767.1	768.5	768.5	764.3
145°	791.5	792.9	792.9	793.6	789.4
147.5°	813.8	813.8	814.5	815.2	810.3
150°	834.7	833.3	834.7	836.1	830.6
152.5°	855.0	851.5	852.9	854.3	849.4
155°	871.7	867.5	868.9	871.0	865.4
157.5°	884.9	882.9	882.9	884.9	879.4
160°	898.9	894.7	895.4	898.2	892.6
162.5°	910.1	905.9	906.6	910.7	904.5
165°	919.8	915.6	916.3	920.5	914.9
167.5°	927.5	923.3	924.0	928.9	922.6
170°	933.8	928.9	929.6	935.2	928.9
172.5°	937.9	933.1	934.5	939.3	933.1
175°	940.7	936.6	937.2	942.8	936.6
177.5°	942.8	938.6	939.3	944.2	938.6
180°	940.7	940.7	940.7	940.7	940.7

(END OF REPORT)