

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: P335082

Luminaire Tested: **S125IP-S810U840-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P335082  
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-S810U840-4F0-1E-UDD  
Description: DEFINE 5 INDIRECT LED LUMINAIRE, NO LENS  
PENDANT MOUNT, 810 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3274.2 lumens  
Efficiency: N/A  
Efficacy: 124.0 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

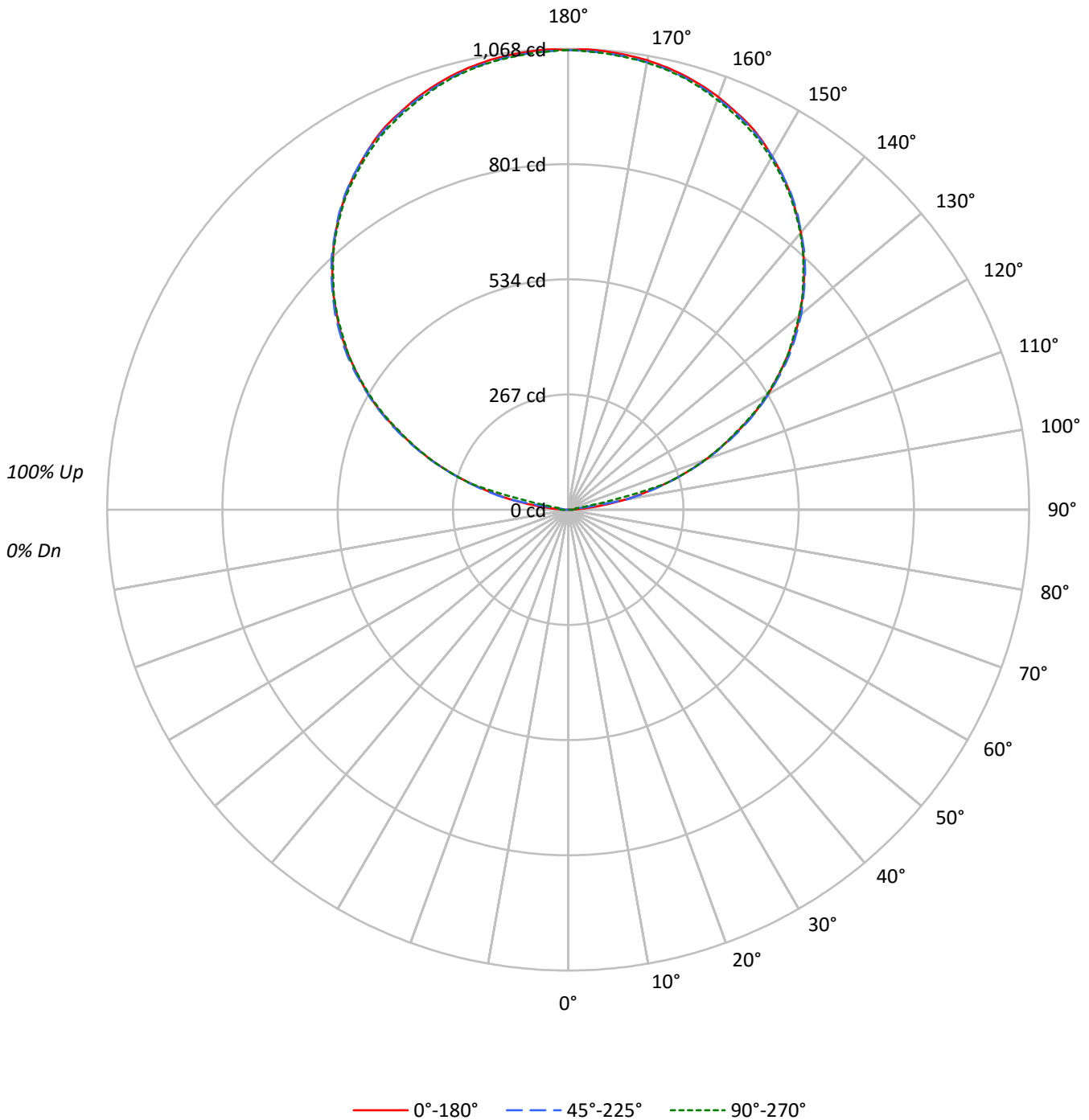
Input Watts (W): 26.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1.6	0.0
90°-100°	36.1	1.1
100°-110°	240.4	7.3
110°-120°	433.0	13.2
120°-130°	555.8	17.0
130°-140°	597.8	18.3
140°-150°	561.0	17.1
150°-160°	453.8	13.9
160°-170°	293.5	9.0
170°-180°	101.2	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.6	0.0
90°-120°	709.6	21.7
90°-150°	2424.1	74.0
90°-180°	3273.0	100.0
0°-180°	3274.2	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°	1	7	13	17	19	2
95°	45	43	13	17	17	55
105°	232	235	235	235	235	246
115°	436	440	441	438	433	432
125°	620	626	626	622	620	554
135°	773	778	776	775	770	596
145°	896	898	898	899	894	561
155°	987	982	984	986	980	455
165°	1042	1037	1038	1042	1036	294
175°	1065	1061	1061	1068	1061	101
180°	1065	1065	1065	1065	1065	



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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°	0.8	7.1	12.6	16.6	19.0
92.5°	15.0	7.9	12.6	16.6	17.4
95°	45.0	42.6	12.6	16.6	16.6
97.5°	84.5	89.2	14.2	15.8	16.6
100°	131.9	134.3	137.4	19.7	16.6
102.5°	180.1	183.2	184.8	186.4	120.0
105°	232.2	235.3	235.3	235.3	234.6
107.5°	285.9	285.9	287.5	288.3	285.1
110°	338.0	338.0	339.6	337.2	338.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	387.0	389.4	390.1	<i>387.0</i>	385.4
115°	435.9	439.9	440.7	<i>437.5</i>	432.8
117.5°	487.3	487.3	490.4	<i>485.7</i>	484.1
120°	534.7	533.9	536.2	<i>534.7</i>	530.7
122.5°	576.5	580.5	581.3	<i>579.7</i>	574.9
125°	620.0	625.5	625.5	<i>622.3</i>	620.0
127.5°	661.8	665.8	665.0	<i>663.4</i>	657.1
130°	699.7	703.7	704.5	<i>702.1</i>	698.1
132.5°	737.6	742.4	740.0	<i>740.0</i>	736.1
135°	773.2	777.9	776.3	<i>774.8</i>	770.0
137.5°	806.3	811.1	809.5	<i>809.5</i>	805.6
140°	838.7	840.3	839.5	<i>841.1</i>	836.4
142.5°	867.9	868.7	870.3	<i>870.3</i>	865.6
145°	896.4	898.0	898.0	<i>898.7</i>	894.0
147.5°	921.7	921.7	922.4	<i>923.2</i>	917.7
150°	945.3	943.8	945.3	<i>946.9</i>	940.6
152.5°	968.2	964.3	965.9	<i>967.5</i>	961.9
155°	987.2	982.5	984.0	<i>986.4</i>	980.1
157.5°	1002.2	999.8	999.8	<i>1002.2</i>	995.9
160°	1018.0	1013.3	1014.1	<i>1017.2</i>	1010.9
162.5°	1030.6	1025.9	1026.7	<i>1031.4</i>	1024.3
165°	1041.7	1037.0	1037.7	<i>1042.5</i>	1036.2
167.5°	1050.4	1045.6	1046.4	<i>1052.0</i>	1044.9
170°	1057.5	1052.0	1052.8	<i>1059.1</i>	1052.0
172.5°	1062.2	1056.7	1058.3	<i>1063.8</i>	1056.7
175°	1065.4	1060.6	1061.4	<i>1067.8</i>	1060.6
177.5°	<i>1067.8</i>	<i>1063.0</i>	<i>1063.8</i>	<i>1069.3</i>	<i>1063.0</i>
180°	1065.4	1065.4	1065.4	<i>1065.4</i>	1065.4

(END OF REPORT)