

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: P335077

Luminaire Tested: **S125IP-S810U835-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P335077  
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-S810U835-4F0-1E-UDD  
Description: DEFINE 5 INDIRECT LED LUMINAIRE, NO LENS  
PENDANT MOUNT, 810 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3242.2 lumens  
Efficiency: N/A  
Efficacy: 122.8 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

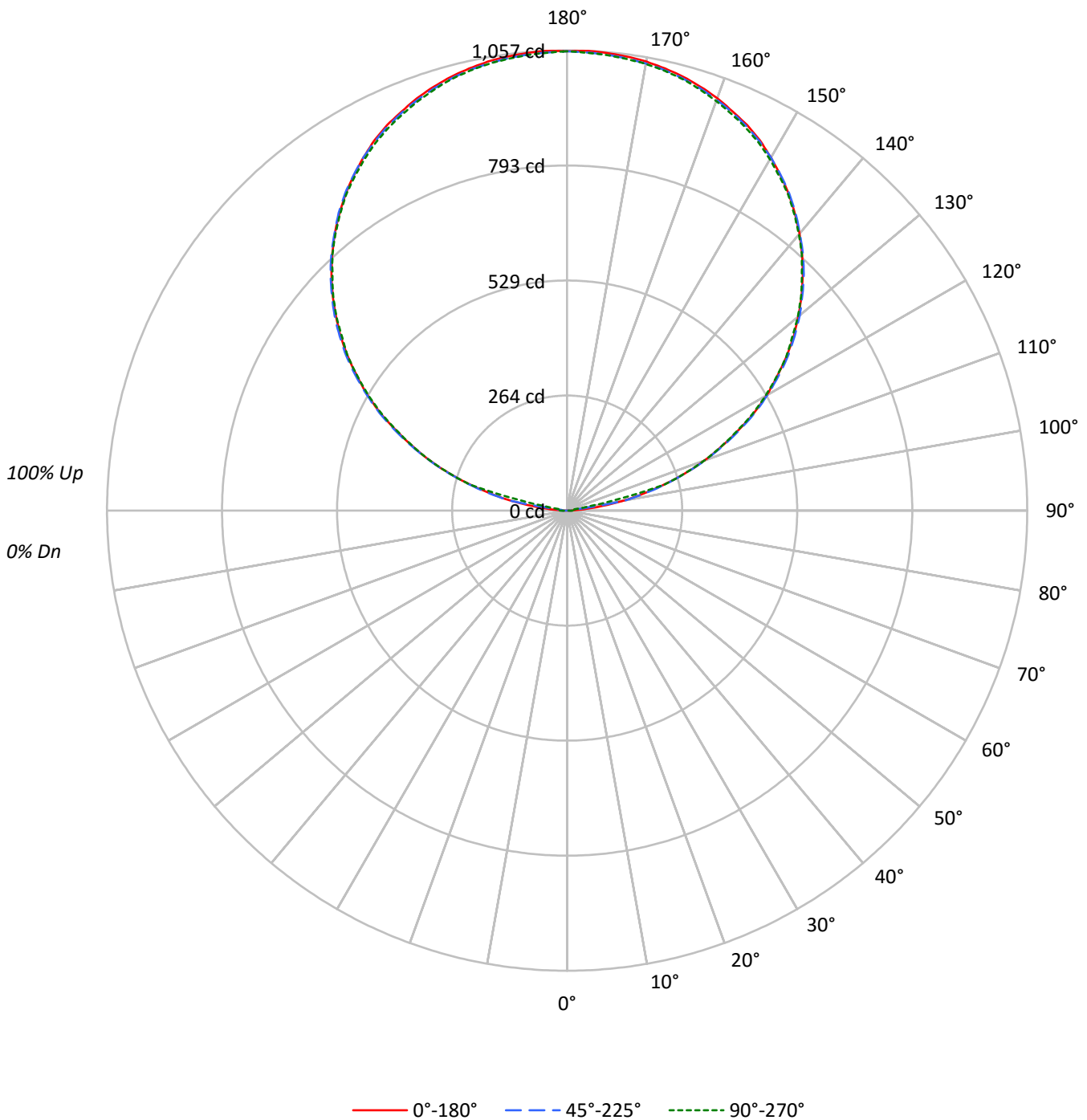
Input Watts (W): 26.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	35.8	1.1
100°-110°	238.1	7.3
110°-120°	428.8	13.2
120°-130°	550.3	17.0
130°-140°	591.9	18.3
140°-150°	555.5	17.1
150°-160°	449.4	13.9
160°-170°	290.6	9.0
170°-180°	100.2	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°	702.6	21.7
90°-150°	2400.4	74.0
90°-180°	3241.0	100.0
0°-180°	3242.2	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	12	16	19	2
95°	45	42	12	16	16	55
105°	230	233	233	233	232	244
115°	432	436	436	433	429	428
125°	614	619	619	616	614	548
135°	766	770	769	767	762	590
145°	888	889	889	890	885	555
155°	978	973	974	977	970	450
165°	1032	1027	1028	1032	1026	291
175°	1055	1050	1051	1057	1050	100
180°	1055	1055	1055	1055	1055	



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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	7.0	12.5	16.4	18.8
92.5°	14.9	7.8	12.5	16.4	17.2
95°	44.6	42.2	12.5	16.4	16.4
97.5°	83.7	88.4	14.1	15.6	16.4
100°	130.6	132.9	136.1	19.6	16.4
102.5°	178.3	181.4	183.0	184.6	118.9
105°	229.9	233.0	233.0	233.0	232.3
107.5°	283.1	283.1	284.7	285.4	282.3
110°	334.7	334.7	336.3	333.9	334.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	383.2	385.5	386.3	383.2	381.6
115°	431.7	435.6	436.4	433.3	428.6
117.5°	482.5	482.5	485.7	481.0	479.4
120°	529.4	528.7	531.0	529.4	525.5
122.5°	570.9	574.8	575.6	574.0	569.3
125°	613.9	619.4	619.4	616.3	613.9
127.5°	655.4	659.3	658.5	656.9	650.7
130°	692.9	696.8	697.6	695.2	691.3
132.5°	730.4	735.1	732.8	732.8	728.9
135°	765.6	770.3	768.8	767.2	762.5
137.5°	798.5	803.2	801.6	801.6	797.7
140°	830.5	832.1	831.3	832.9	828.2
142.5°	859.5	860.2	861.8	861.8	857.1
145°	887.6	889.2	889.2	890.0	885.3
147.5°	912.6	912.6	913.4	914.2	908.7
150°	936.1	934.5	936.1	937.7	931.4
152.5°	958.8	954.9	956.4	958.0	952.5
155°	977.6	972.9	974.4	976.8	970.5
157.5°	992.4	990.1	990.1	992.4	986.2
160°	1008.1	1003.4	1004.1	1007.3	1001.0
162.5°	1020.6	1015.9	1016.7	1021.4	1014.3
165°	1031.5	1026.8	1027.6	1032.3	1026.0
167.5°	1040.1	1035.4	1036.2	1041.7	1034.6
170°	1047.2	1041.7	1042.5	1048.7	1041.7
172.5°	1051.9	1046.4	1047.9	1053.4	1046.4
175°	1055.0	1050.3	1051.1	1057.3	1050.3
177.5°	1057.3	1052.6	1053.4	1058.9	1052.6
180°	1055.0	1055.0	1055.0	1055.0	1055.0

(END OF REPORT)