

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: P335032

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P335032  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11)  
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-1  
Description: DEFINE 5 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT MOUNT, 810 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

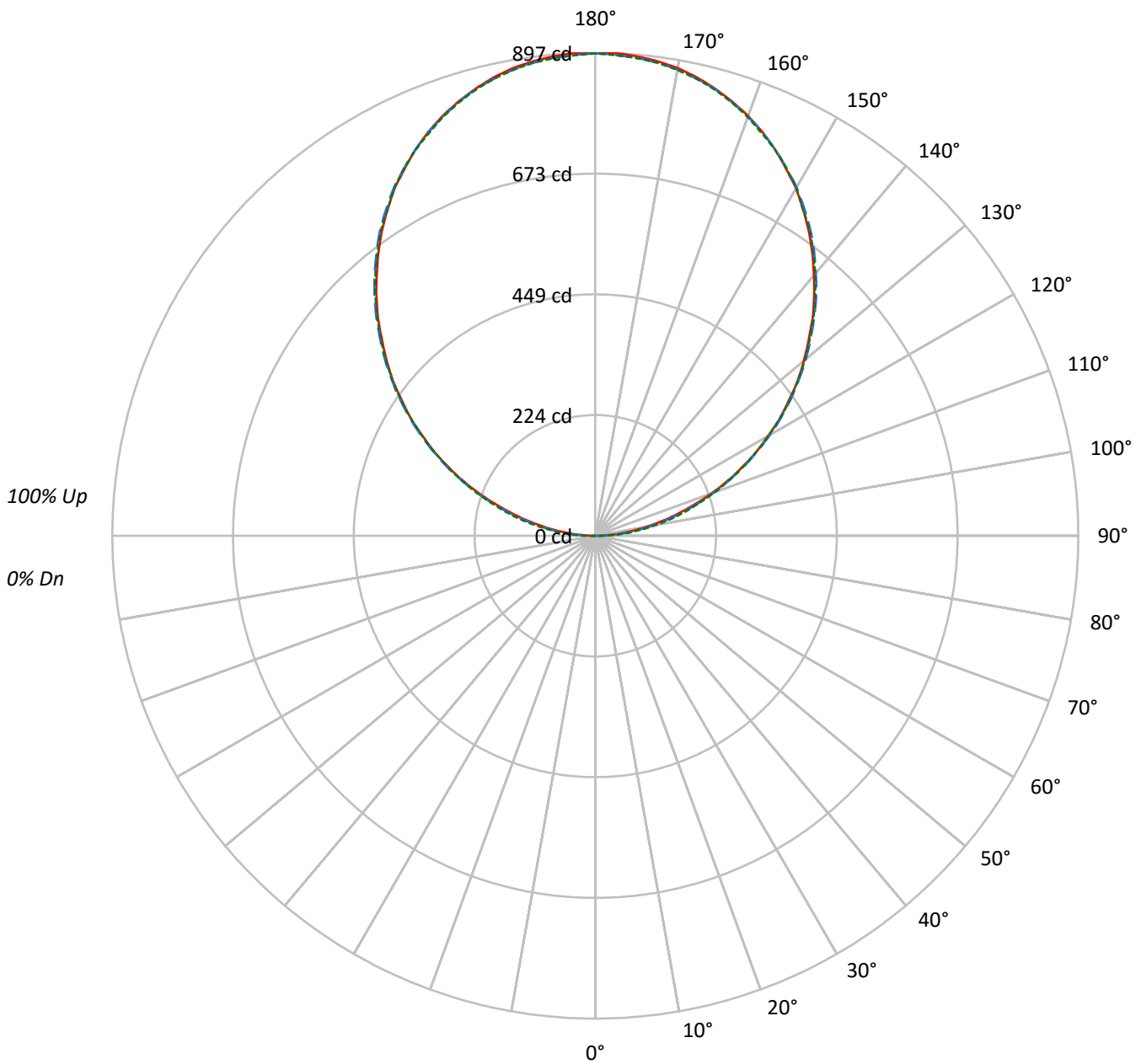
Lumens per Lamp: N/A  
Luminaire Lumens: 2502.1 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

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



— 0°-180°    - - 45°-225°    - - - 90°-270°



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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	0.1
90°-100°	59.6	2.4
100°-110°	177.0	7.1
110°-120°	300.2	12.0
120°-130°	395.2	15.8
130°-140°	442.8	17.7
140°-150°	434.1	17.3
150°-160°	364.6	14.6
160°-170°	242.4	9.7
170°-180°	84.8	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.4	0.1
90°-120°	536.8	21.5
90°-150°	1808.9	72.3
90°-180°	2501.0	100.0
0°-180°	2502.1	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	3
95°	45	47	54	59	60	47
105°	159	162	167	171	173	170
115°	300	303	305	304	303	297
125°	439	443	444	442	441	393
135°	570	575	575	575	572	440
145°	691	694	696	696	694	432
155°	791	791	791	794	791	364
165°	860	858	859	862	858	243
175°	894	891	891	895	890	85
180°	896	896	896	896	896	



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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°	20.9	24.4	30.7	35.6	37.0
95°	45.3	46.7	53.7	58.6	60.0
97.5°	69.7	70.4	80.2	84.4	85.1
100°	97.6	97.6	106.7	113.0	114.4
102.5°	127.6	131.1	134.6	141.5	143.6
105°	159.0	162.5	166.6	170.8	172.9
107.5°	193.1	196.6	200.1	202.2	202.2
110°	228.7	232.2	234.3	236.4	235.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	265.0	266.4	269.1	269.8	268.5
115°	300.5	303.3	304.7	304.0	303.3
117.5°	336.8	337.5	338.9	339.6	336.8
120°	370.3	373.7	374.4	374.4	371.6
122.5°	406.5	407.2	409.3	408.6	406.5
125°	438.6	442.8	443.5	442.1	441.4
127.5°	474.1	476.2	476.9	476.2	474.8
130°	505.5	509.0	510.4	509.7	508.3
132.5°	536.9	543.2	542.5	541.8	539.7
135°	570.4	574.6	575.3	575.3	572.5
137.5°	601.8	605.9	607.3	608.0	604.5
140°	631.7	635.2	637.3	638.7	635.2
142.5°	661.7	664.5	667.3	668.0	664.5
145°	691.0	693.8	695.9	695.9	693.8
147.5°	718.2	720.3	721.7	723.8	718.2
150°	745.4	744.7	747.5	747.5	746.1
152.5°	767.7	769.1	769.8	771.9	769.1
155°	790.7	790.7	791.4	794.2	790.7
157.5°	811.6	810.2	810.9	813.7	808.8
160°	829.8	827.7	828.4	831.2	827.7
162.5°	845.8	844.4	844.4	847.9	843.7
165°	859.7	858.3	859.0	861.8	857.7
167.5°	872.3	869.5	869.5	873.7	869.5
170°	882.1	879.3	879.3	883.5	878.6
172.5°	889.0	886.2	886.2	890.4	886.2
175°	893.9	891.1	891.1	895.3	890.4
177.5°	897.4	894.6	893.9	898.1	893.2
180°	896.0	896.0	896.0	896.0	896.0

(END OF REPORT)