

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: P335024

Luminaire Tested: **S125IP-S1205U930-4F0-1E-UDD-1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P335024  
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-S1205U930-4F0-1E-UDD-1  
Description: DEFINE 5 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT MOUNT, 1205 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3399.6 lumens  
Efficiency: N/A  
Efficacy: 81.1 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

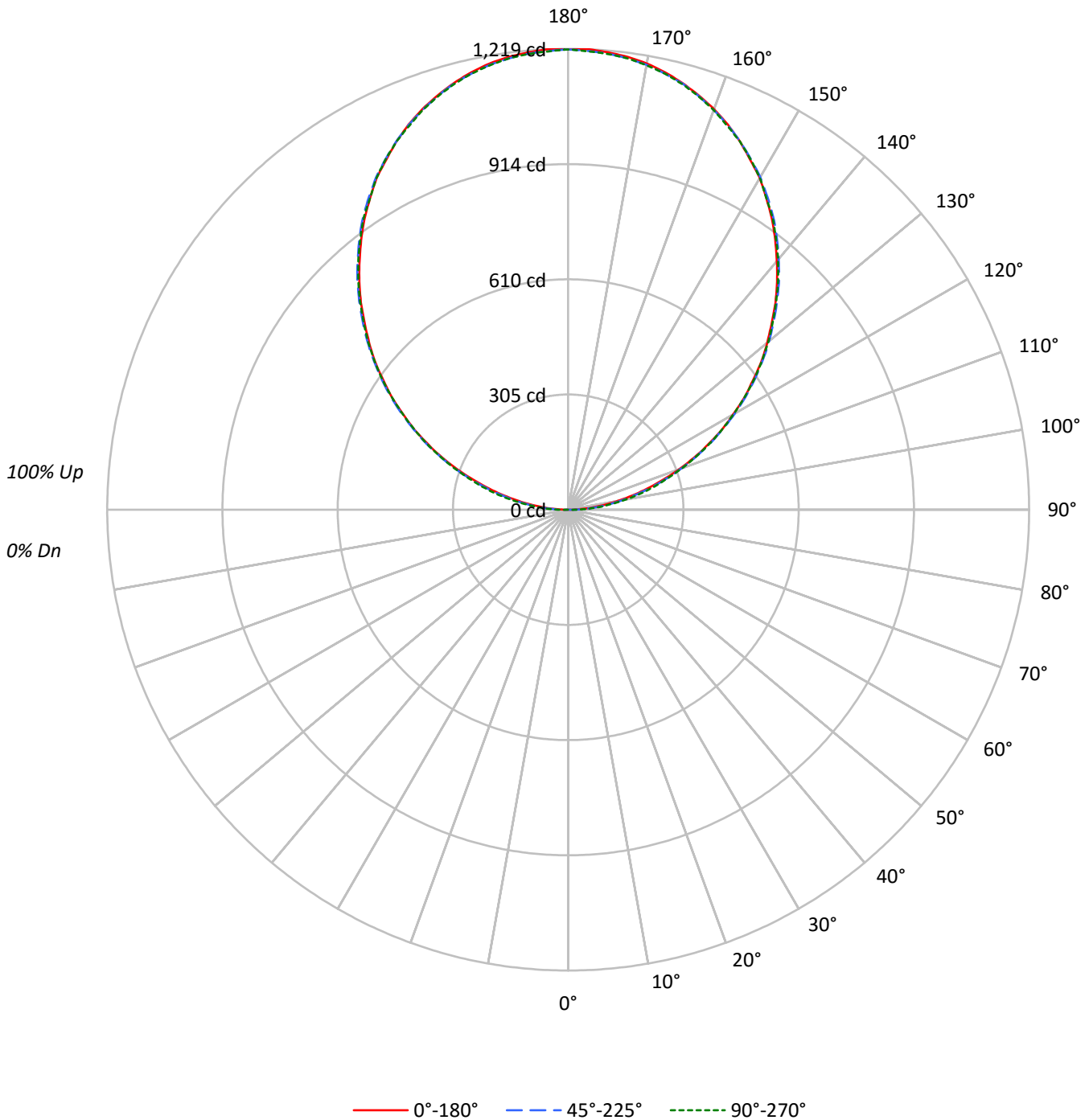
Input Watts (W): 41.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1.9	0.1
90°-100°	81.0	2.4
100°-110°	240.5	7.1
110°-120°	407.9	12.0
120°-130°	537.0	15.8
130°-140°	601.7	17.7
140°-150°	589.8	17.3
150°-160°	495.4	14.6
160°-170°	329.3	9.7
170°-180°	115.2	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.9	0.1
90°-120°	729.4	21.5
90°-150°	2457.8	72.3
90°-180°	3398.0	100.0
0°-180°	3399.6	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	8	15	20	23	4
95°	62	64	73	80	82	64
105°	216	221	226	232	235	230
115°	408	412	414	413	412	404
125°	596	602	603	601	600	534
135°	775	781	782	782	778	597
145°	939	943	946	946	943	587
155°	1074	1074	1075	1079	1074	495
165°	1168	1166	1167	1171	1165	330
175°	1215	1211	1211	1216	1210	115
180°	1217	1217	1217	1217	1217	



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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°	0.9	8.5	15.2	19.9	22.7
92.5°	28.4	33.2	41.7	48.3	50.2
95°	61.6	63.5	73.0	79.6	81.5
97.5°	94.7	95.7	109.0	114.6	115.6
100°	132.6	132.6	145.0	153.5	155.4
102.5°	173.4	178.1	182.9	192.3	195.2
105°	216.0	220.7	226.4	232.1	235.0
107.5°	262.4	267.2	271.9	274.8	274.8
110°	310.8	315.5	318.3	321.2	320.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	360.0	361.9	365.7	<i>366.7</i>	364.8
115°	408.3	412.1	414.0	<i>413.1</i>	412.1
117.5°	457.6	458.5	460.4	<i>461.4</i>	457.6
120°	503.1	507.8	508.8	<i>508.8</i>	505.0
122.5°	552.3	553.3	556.1	<i>555.2</i>	552.3
125°	595.9	601.6	602.6	<i>600.7</i>	599.7
127.5°	644.2	647.1	648.0	<i>647.1</i>	645.2
130°	686.9	691.6	693.5	<i>692.6</i>	690.7
132.5°	729.5	738.0	737.1	<i>736.1</i>	733.3
135°	775.0	780.7	781.6	<i>781.6</i>	777.8
137.5°	817.6	823.3	825.2	<i>826.1</i>	821.4
140°	858.4	863.1	865.9	<i>867.8</i>	863.1
142.5°	899.1	902.9	906.7	<i>907.6</i>	902.9
145°	938.9	942.7	945.5	<i>945.5</i>	942.7
147.5°	975.8	978.7	980.6	<i>983.4</i>	975.8
150°	1012.8	1011.8	1015.6	<i>1015.6</i>	1013.7
152.5°	1043.1	1045.0	1045.9	<i>1048.8</i>	1045.0
155°	1074.4	1074.4	1075.3	<i>1079.1</i>	1074.4
157.5°	1102.8	1100.9	1101.8	<i>1105.6</i>	1099.0
160°	1127.4	1124.6	1125.5	<i>1129.3</i>	1124.6
162.5°	1149.2	1147.3	1147.3	<i>1152.1</i>	1146.4
165°	1168.2	1166.3	1167.2	<i>1171.0</i>	1165.3
167.5°	1185.2	1181.4	1181.4	<i>1187.1</i>	1181.4
170°	1198.5	1194.7	1194.7	<i>1200.4</i>	1193.7
172.5°	1208.0	1204.2	1204.2	<i>1209.9</i>	1204.2
175°	1214.6	1210.8	1210.8	<i>1216.5</i>	1209.9
177.5°	<i>1219.3</i>	<i>1215.5</i>	<i>1214.6</i>	<i>1220.3</i>	<i>1213.6</i>
180°	1217.4	1217.4	1217.4	<i>1217.4</i>	1217.4

(END OF REPORT)