

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: P335104

Luminaire Tested: **S125IP-S1205U940-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P335104  
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-S1205U940-4F0-1E-UDD  
Description: DEFINE 5 INDIRECT LED LUMINAIRE, NO LENS  
PENDANT MOUNT, 1205 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

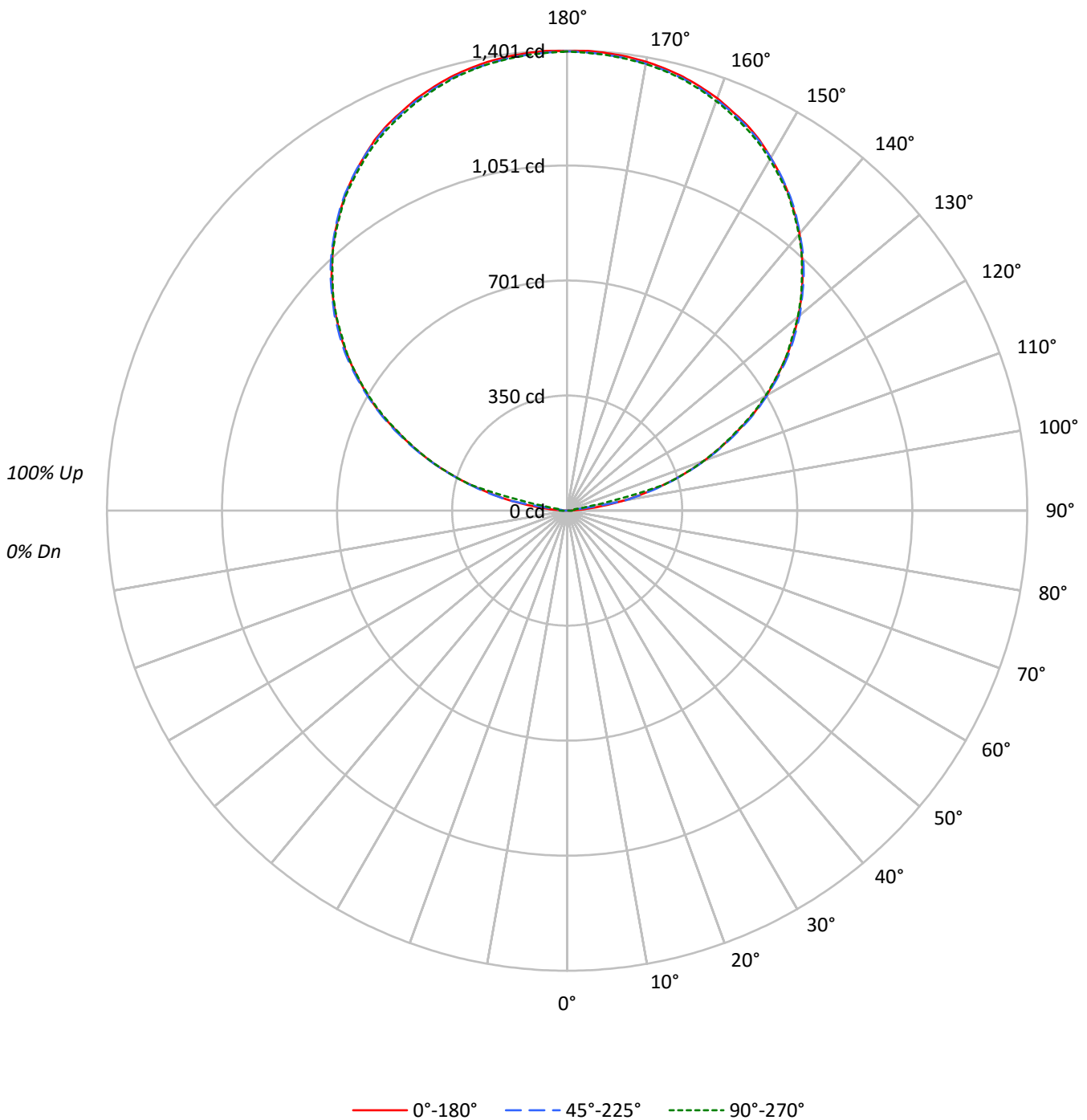
Lumens per Lamp: N/A  
Luminaire Lumens: 4296.5 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 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°	2.1	0.0
90°-100°	47.5	1.1
100°-110°	315.5	7.3
110°-120°	568.2	13.2
120°-130°	729.3	17.0
130°-140°	784.4	18.3
140°-150°	736.2	17.1
150°-160°	595.5	13.9
160°-170°	385.1	9.0
170°-180°	132.8	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.1	0.0
90°-120°	931.1	21.7
90°-150°	3181.0	74.0
90°-180°	4294.0	99.9
0°-180°	4296.5	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	9	17	22	25	3
95°	59	56	17	22	22	72
105°	305	309	309	309	308	323
115°	572	577	578	574	568	567
125°	814	821	821	817	814	727
135°	1015	1021	1019	1017	1010	782
145°	1176	1178	1178	1179	1173	736
155°	1295	1289	1291	1294	1286	597
165°	1367	1361	1362	1368	1360	386
175°	1398	1392	1393	1401	1392	133
180°	1398	1398	1398	1398	1398	



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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°	1.0	9.3	16.6	21.8	24.9
92.5°	19.7	10.4	16.6	21.8	22.8
95°	59.1	56.0	16.6	21.8	21.8
97.5°	110.9	117.1	18.7	20.7	21.8
100°	173.1	176.2	180.3	25.9	21.8
102.5°	236.3	240.4	242.5	244.6	157.5
105°	304.7	308.8	308.8	308.8	307.8
107.5°	375.2	375.2	377.2	378.3	374.1
110°	443.5	443.5	445.6	442.5	443.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	507.8	510.9	511.9	507.8	505.7
115°	572.1	577.2	578.3	574.1	567.9
117.5°	639.4	639.4	643.6	637.3	635.3
120°	701.6	700.6	703.7	701.6	696.4
122.5°	756.5	761.7	762.7	760.7	754.4
125°	813.5	820.8	820.8	816.6	813.5
127.5°	868.4	873.6	872.6	870.5	862.2
130°	918.2	923.4	924.4	921.3	916.1
132.5°	967.9	974.2	971.0	971.0	965.9
135°	1014.6	1020.8	1018.7	1016.6	1010.4
137.5°	1058.1	1064.3	1062.2	1062.2	1057.1
140°	1100.6	1102.7	1101.6	1103.7	1097.5
142.5°	1138.9	1140.0	1142.0	1142.0	1135.8
145°	1176.2	1178.3	1178.3	1179.3	1173.1
147.5°	1209.4	1209.4	1210.4	1211.5	1204.2
150°	1240.5	1238.4	1240.5	1242.6	1234.3
152.5°	1270.5	1265.4	1267.4	1269.5	1262.3
155°	1295.4	1289.2	1291.3	1294.4	1286.1
157.5°	1315.1	1312.0	1312.0	1315.1	1306.8
160°	1335.8	1329.6	1330.6	1334.8	1326.5
162.5°	1352.4	1346.2	1347.2	1353.4	1344.1
165°	1366.9	1360.7	1361.7	1368.0	1359.7
167.5°	1378.3	1372.1	1373.1	1380.4	1371.1
170°	1387.6	1380.4	1381.4	1389.7	1380.4
172.5°	1393.9	1386.6	1388.7	1395.9	1386.6
175°	1398.0	1391.8	1392.8	1401.1	1391.8
177.5°	1401.1	1394.9	1395.9	1403.2	1394.9
180°	1398.0	1398.0	1398.0	1398.0	1398.0

(END OF REPORT)