

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: P335014

Luminaire Tested: **S125IP-S1205U840-4F0-1E-UDD-1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P335014  
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-S1205U840-4F0-1E-UDD-1  
Description: DEFINE 5 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT MOUNT, 1205 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4211.0 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

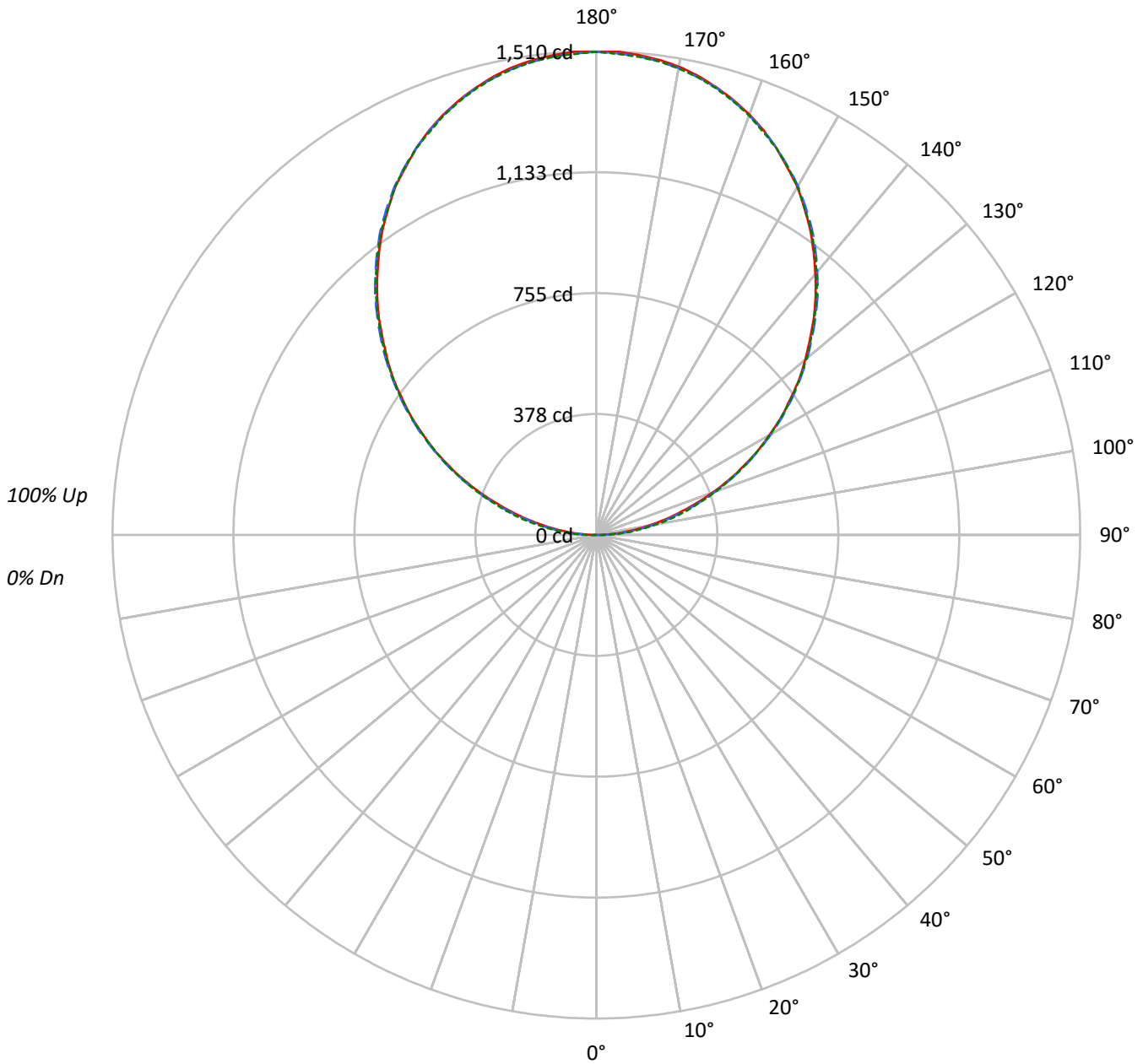
Input Watts (W): 41.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2.4	0.1
90°-100°	100.3	2.4
100°-110°	297.9	7.1
110°-120°	505.2	12.0
120°-130°	665.1	15.8
130°-140°	745.3	17.7
140°-150°	730.5	17.3
150°-160°	613.6	14.6
160°-170°	407.9	9.7
170°-180°	142.7	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.4	0.1
90°-120°	903.4	21.5
90°-150°	3044.3	72.3
90°-180°	4209.0	100.0
0°-180°	4211.0	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	11	19	25	28	5
95°	76	79	90	99	101	80
105°	268	273	280	288	291	285
115°	506	510	513	512	510	500
125°	738	745	746	744	743	661
135°	960	967	968	968	964	740
145°	1163	1168	1171	1171	1168	727
155°	1331	1331	1332	1337	1331	613
165°	1447	1445	1446	1450	1443	408
175°	1504	1500	1500	1507	1499	143
180°	1508	1508	1508	1508	1508	



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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°	1.2	10.6	18.8	24.6	28.2
92.5°	35.2	41.1	51.6	59.8	62.2
95°	76.3	78.6	90.4	98.6	100.9
97.5°	117.4	118.5	135.0	142.0	143.2
100°	164.3	164.3	179.5	190.1	192.5
102.5°	214.8	220.6	226.5	238.2	241.7
105°	267.6	273.4	280.5	287.5	291.0
107.5°	325.1	330.9	336.8	340.3	340.3
110°	384.9	390.8	394.3	397.8	396.6



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CATALOG NUMBER: S125IP-S1205U840-4F0-1E-UDD-1

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	445.9	448.3	453.0	454.1	451.8
115°	505.8	510.5	512.8	511.7	510.5
117.5°	566.8	568.0	570.3	571.5	566.8
120°	623.1	629.0	630.2	630.2	625.5
122.5°	684.2	685.3	688.9	687.7	684.2
125°	738.1	745.2	746.4	744.0	742.8
127.5°	798.0	801.5	802.7	801.5	799.2
130°	850.8	856.7	859.0	857.8	855.5
132.5°	903.6	914.2	913.0	911.8	908.3
135°	959.9	967.0	968.1	968.1	963.5
137.5°	1012.7	1019.8	1022.1	1023.3	1017.4
140°	1063.2	1069.1	1072.6	1074.9	1069.1
142.5°	1113.7	1118.4	1123.1	1124.2	1118.4
145°	1163.0	1167.6	1171.2	1171.2	1167.6
147.5°	1208.7	1212.2	1214.6	1218.1	1208.7
150°	1254.5	1253.3	1258.0	1258.0	1255.7
152.5°	1292.0	1294.4	1295.6	1299.1	1294.4
155°	1330.8	1330.8	1331.9	1336.6	1330.8
157.5°	1366.0	1363.6	1364.8	1369.5	1361.3
160°	1396.5	1393.0	1394.1	1398.8	1393.0
162.5°	1423.5	1421.1	1421.1	1427.0	1419.9
165°	1446.9	1444.6	1445.8	1450.5	1443.4
167.5°	1468.1	1463.4	1463.4	1470.4	1463.4
170°	1484.5	1479.8	1479.8	1486.8	1478.6
172.5°	1496.2	1491.5	1491.5	1498.6	1491.5
175°	1504.4	1499.7	1499.7	1506.8	1498.6
177.5°	1510.3	1505.6	1504.4	1511.5	1503.3
180°	1508.0	1508.0	1508.0	1508.0	1508.0

(END OF REPORT)