

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: P334829

Luminaire Tested: **S124IP-S1205U830-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124IP-S1205U830-4F0-1E-UDD-1
Description: DEFINE 4 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT MOUNT, 1205 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3931.6 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

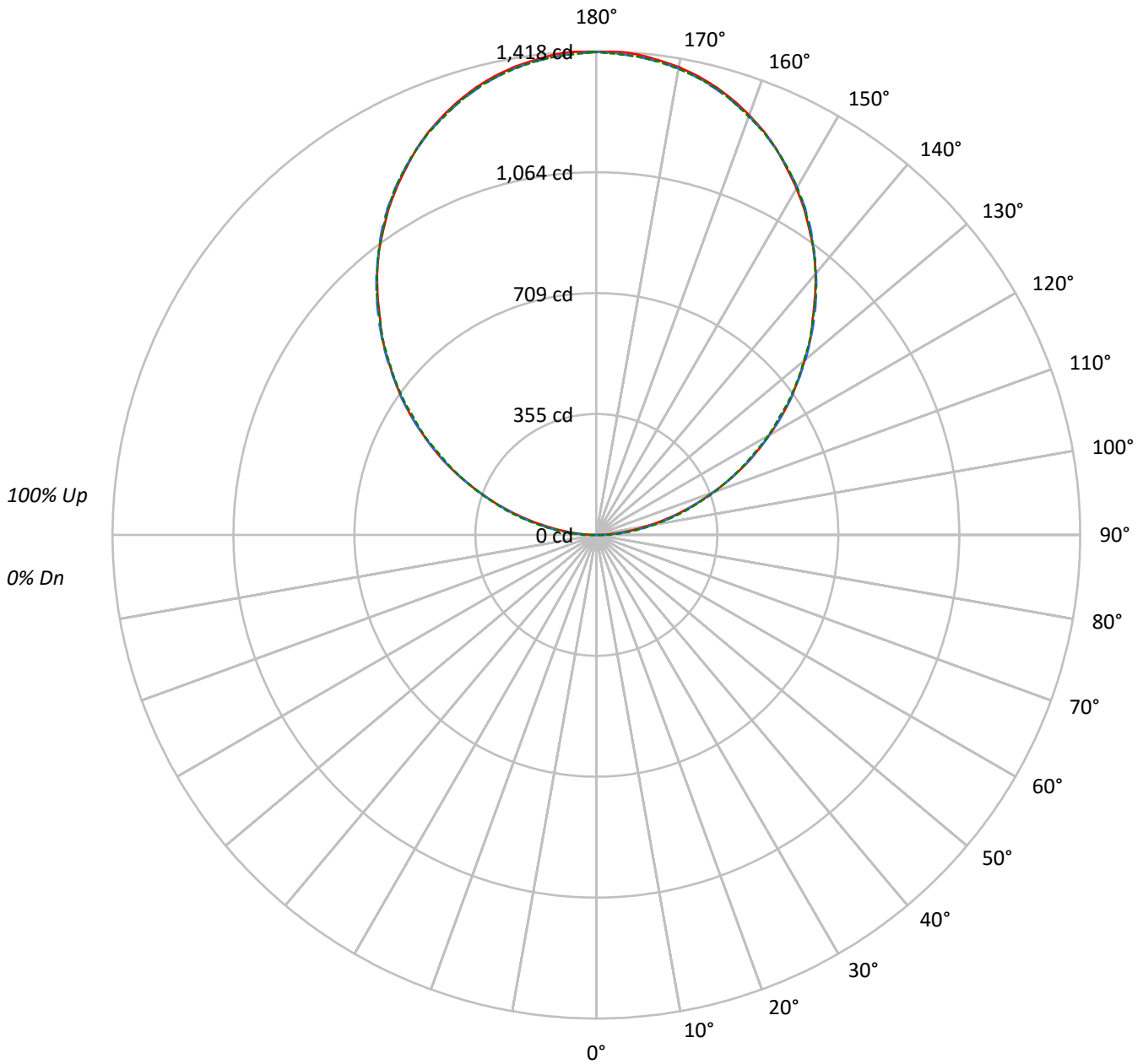
Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3.0	0.1
90°-100°	92.3	2.3
100°-110°	276.4	7.0
110°-120°	469.6	11.9
120°-130°	619.3	15.8
130°-140°	695.6	17.7
140°-150°	683.7	17.4
150°-160°	575.0	14.6
160°-170°	382.6	9.7
170°-180°	134.0	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.0	0.1
90°-120°	838.3	21.3
90°-150°	2837.0	72.2
90°-180°	3929.0	99.9
0°-180°	3931.6	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°	3	15	24	31	33	5
95°	66	76	83	86	86	71
105°	255	256	261	264	267	271
115°	477	477	475	474	473	471
125°	695	695	694	692	690	620
135°	897	903	903	901	898	694
145°	1090	1094	1095	1094	1091	682
155°	1248	1248	1247	1252	1247	574
165°	1359	1356	1354	1360	1356	383
175°	1414	1408	1407	1415	1407	134
180°	1416	1416	1416	1416	1416	



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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°	3.3	15.3	24.1	30.7	32.9
92.5°	28.5	42.7	48.2	51.5	52.6
95°	65.7	75.6	83.2	86.5	86.5
97.5°	105.1	113.9	122.6	127.0	127.0
100°	153.3	157.7	167.5	169.7	169.7
102.5°	203.7	204.8	213.5	216.8	217.9
105°	255.1	256.2	260.6	263.9	267.2
107.5°	308.8	309.9	311.0	315.4	314.3
110°	363.6	365.7	364.6	362.5	365.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	420.5	420.5	418.3	418.3	418.3
115°	477.4	477.4	475.2	474.2	473.1
117.5°	531.1	531.1	530.0	526.7	523.4
120°	584.8	589.1	585.8	580.4	582.6
122.5°	640.6	641.7	640.6	637.3	631.8
125°	695.4	695.4	694.3	692.1	689.9
127.5°	744.6	747.9	745.7	743.5	742.4
130°	797.2	800.5	800.5	798.3	793.9
132.5°	850.8	853.0	851.9	849.8	848.7
135°	896.8	903.4	903.4	901.2	897.9
137.5°	948.3	951.6	953.8	950.5	951.6
140°	999.8	1002.0	1002.0	1000.9	999.8
142.5°	1046.9	1049.1	1048.0	1048.0	1048.0
145°	1089.6	1093.9	1095.0	1093.9	1090.7
147.5°	1133.4	1138.8	1137.8	1136.7	1135.6
150°	1172.8	1177.2	1177.2	1177.2	1176.1
152.5°	1210.0	1212.2	1213.3	1216.6	1213.3
155°	1248.4	1248.4	1247.3	1251.6	1247.3
157.5°	1281.2	1279.0	1279.0	1282.3	1279.0
160°	1309.7	1308.6	1307.5	1310.8	1305.3
162.5°	1336.0	1332.7	1331.6	1338.1	1332.7
165°	1358.9	1355.7	1353.5	1360.0	1355.7
167.5°	1377.6	1373.2	1373.2	1379.8	1373.2
170°	1392.9	1387.4	1388.5	1395.1	1387.4
172.5°	1403.8	1399.5	1399.5	1407.1	1399.5
175°	1413.7	1408.2	1407.1	1414.8	1407.1
177.5°	1418.1	1412.6	1412.6	1420.3	1411.5
180°	1415.9	1415.9	1415.9	1415.9	1415.9

(END OF REPORT)