

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: P334899

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6)
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
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 1205 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

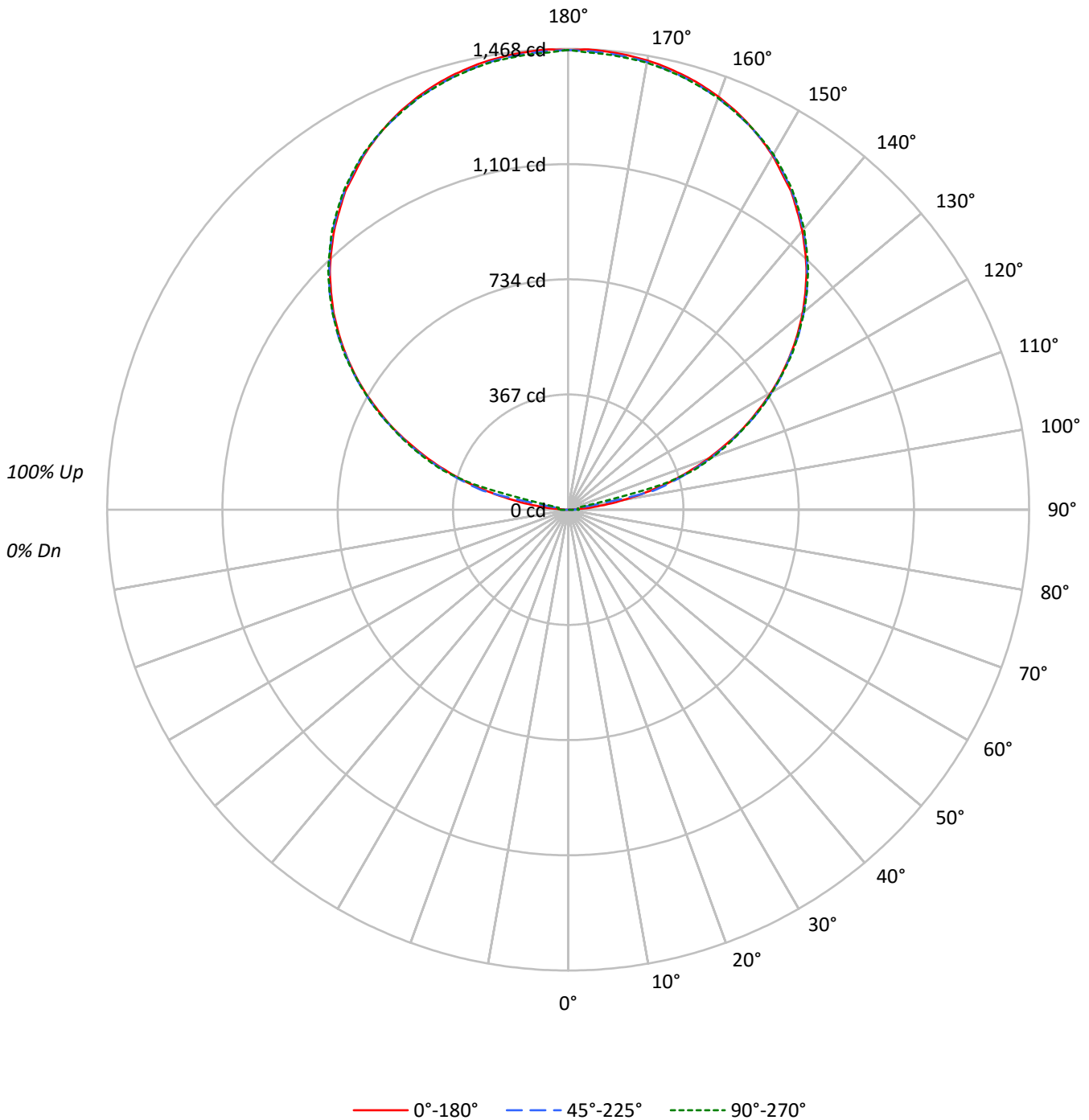
Lumens per Lamp: N/A
Luminaire Lumens: 4534.0 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (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





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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°	48.6	1.1
100°-110°	320.1	7.1
110°-120°	611.3	13.5
120°-130°	776.0	17.1
130°-140°	830.1	18.3
140°-150°	776.2	17.1
150°-160°	625.9	13.8
160°-170°	403.7	8.9
170°-180°	139.1	3.1
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°	980.0	21.6
90°-150°	3362.2	74.2
90°-180°	4531.0	99.9
0°-180°	4534.0	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°	3	15	24	31	33	3
95°	60	23	24	31	32	74
105°	330	336	342	352	312	345
115°	616	619	618	620	620	606
125°	865	870	867	871	872	773
135°	1073	1072	1077	1079	1081	827
145°	1238	1241	1241	1242	1244	773
155°	1357	1358	1355	1359	1356	626
165°	1431	1426	1426	1435	1425	404
175°	1464	1458	1459	1469	1456	139
180°	1464	1464	1464	1464	1464	



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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°	16.4	14.2	23.0	29.6	29.6
95°	60.2	23.0	24.1	30.7	31.8
97.5°	115.0	139.1	24.1	29.6	30.7
100°	179.6	199.3	48.2	29.6	30.7
102.5°	251.9	265.0	278.2	31.8	31.8
105°	329.7	336.2	341.7	351.6	312.1
107.5°	400.8	404.1	411.8	417.3	421.6
110°	473.1	476.4	483.0	485.2	488.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	543.2	549.8	552.0	550.9	555.3
115°	615.5	618.8	617.7	619.9	619.9
117.5°	680.1	684.5	687.8	686.7	686.7
120°	745.8	750.2	749.1	751.3	749.1
122.5°	807.2	809.3	811.5	812.6	810.4
125°	865.2	869.6	867.4	870.7	871.8
127.5°	921.1	922.2	927.6	926.5	925.4
130°	974.7	975.8	979.1	980.2	980.2
132.5°	1024.0	1026.2	1030.6	1031.7	1030.6
135°	1073.3	1072.2	1076.6	1078.8	1081.0
137.5°	1117.1	1117.1	1122.6	1124.8	1123.7
140°	1159.8	1162.0	1164.2	1167.5	1168.6
142.5°	1198.1	1202.5	1203.6	1205.8	1205.8
145°	1237.6	1240.9	1240.9	1241.9	1244.1
147.5°	1268.2	1274.8	1273.7	1274.8	1275.9
150°	1302.2	1306.6	1305.5	1305.5	1306.6
152.5°	1330.7	1333.9	1331.8	1333.9	1332.8
155°	1356.9	1358.0	1354.8	1359.1	1355.8
157.5°	1379.9	1379.9	1375.6	1381.0	1375.6
160°	1399.7	1396.4	1395.3	1401.8	1395.3
162.5°	1417.2	1412.8	1411.7	1418.3	1410.6
165°	1431.4	1425.9	1425.9	1434.7	1424.8
167.5°	1443.5	1438.0	1436.9	1446.7	1435.8
170°	1453.3	1446.7	1447.8	1456.6	1445.7
172.5°	1459.9	1453.3	1454.4	1463.2	1451.1
175°	1464.3	1457.7	1458.8	1468.7	1455.5
177.5°	1467.6	1459.9	1462.1	1470.8	1457.7
180°	1464.3	1464.3	1464.3	1464.3	1464.3

(END OF REPORT)