

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: P334839

Luminaire Tested: **S124IP-S1205U840-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334839
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-S1205U840-4F0-1E-UDD-1
Description: DEFINE 4 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: 4212.4 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

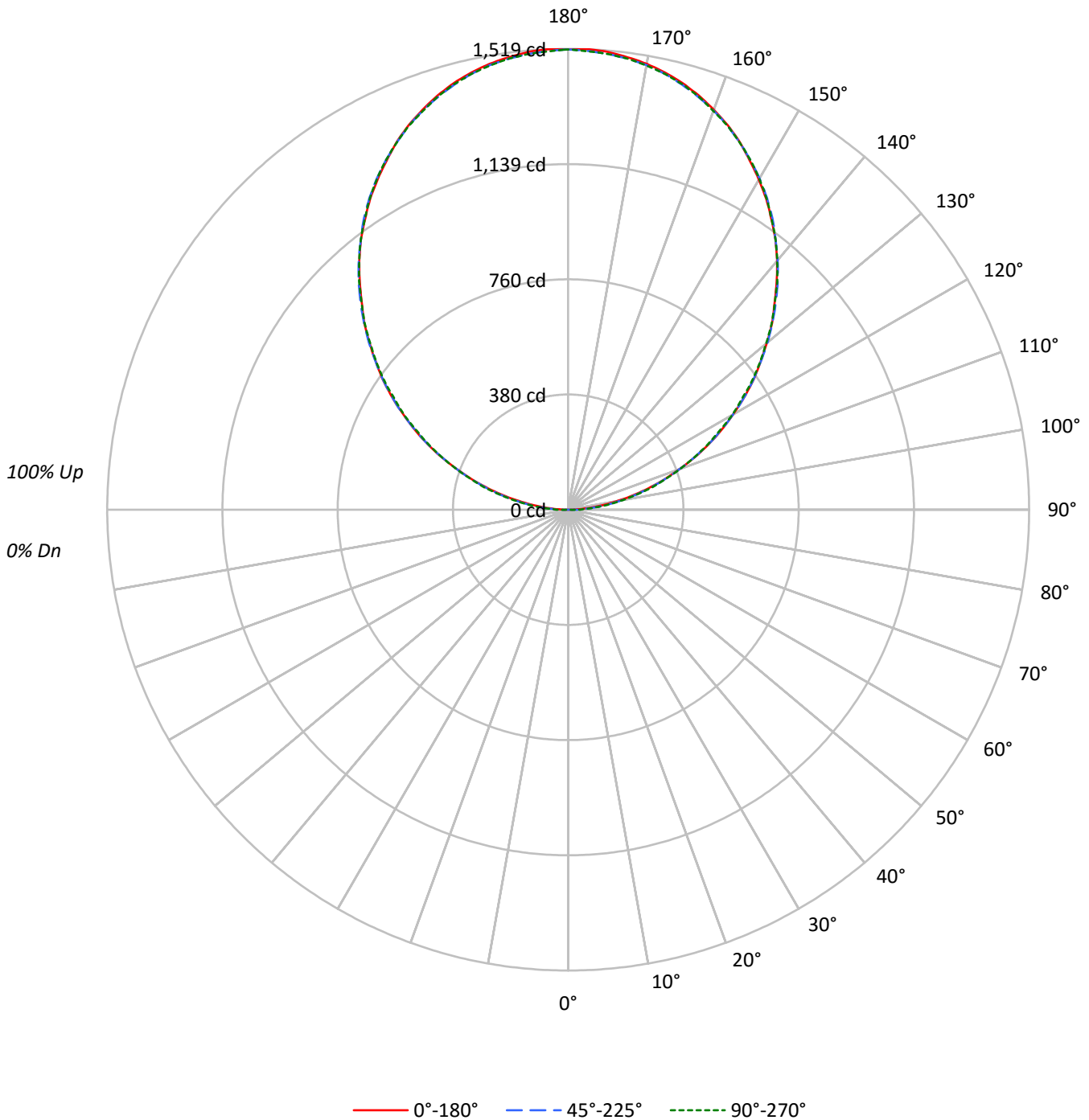
Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	3.2	0.1
90°-100°	98.9	2.3
100°-110°	296.2	7.0
110°-120°	503.1	11.9
120°-130°	663.6	15.8
130°-140°	745.3	17.7
140°-150°	732.5	17.4
150°-160°	616.1	14.6
160°-170°	409.9	9.7
170°-180°	143.5	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.2	0.1
90°-120°	898.2	21.3
90°-150°	3039.6	72.2
90°-180°	4209.0	99.9
0°-180°	4212.4	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°	4	16	26	33	35	5
95°	70	81	89	93	93	76
105°	273	274	279	283	286	290
115°	512	512	509	508	507	504
125°	745	745	744	742	739	664
135°	961	968	968	966	962	743
145°	1167	1172	1173	1172	1169	731
155°	1338	1338	1336	1341	1336	616
165°	1456	1452	1450	1457	1452	411
175°	1515	1509	1508	1516	1508	144
180°	1517	1517	1517	1517	1517	



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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°	3.5	16.4	25.8	32.9	35.2
92.5°	30.5	45.8	51.6	55.1	56.3
95°	70.4	81.0	89.2	92.7	92.7
97.5°	112.6	122.0	131.4	136.1	136.1
100°	164.3	168.9	179.5	181.9	181.9
102.5°	218.2	219.4	228.8	232.3	233.5
105°	273.4	274.5	279.2	282.8	286.3
107.5°	330.9	332.0	333.2	337.9	336.7
110°	389.5	391.9	390.7	388.3	391.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	450.5	450.5	448.2	448.2	448.2
115°	511.5	511.5	509.2	508.0	506.8
117.5°	569.0	569.0	567.9	564.3	560.8
120°	626.5	631.2	627.7	621.8	624.2
122.5°	686.4	687.5	686.4	682.8	677.0
125°	745.0	745.0	743.8	741.5	739.2
127.5°	797.8	801.3	799.0	796.6	795.5
130°	854.1	857.7	857.7	855.3	850.6
132.5°	911.6	914.0	912.8	910.4	909.3
135°	960.9	967.9	967.9	965.6	962.1
137.5°	1016.0	1019.6	1021.9	1018.4	1019.6
140°	1071.2	1073.5	1073.5	1072.4	1071.2
142.5°	1121.6	1124.0	1122.8	1122.8	1122.8
145°	1167.4	1172.1	1173.3	1172.1	1168.6
147.5°	1214.3	1220.2	1219.0	1217.8	1216.7
150°	1256.6	1261.3	1261.3	1261.3	1260.1
152.5°	1296.5	1298.8	1300.0	1303.5	1300.0
155°	1337.5	1337.5	1336.3	1341.0	1336.3
157.5°	1372.7	1370.4	1370.4	1373.9	1370.4
160°	1403.2	1402.0	1400.9	1404.4	1398.5
162.5°	1431.4	1427.9	1426.7	1433.7	1427.9
165°	1456.0	1452.5	1450.1	1457.2	1452.5
167.5°	1476.0	1471.3	1471.3	1478.3	1471.3
170°	1492.4	1486.5	1487.7	1494.7	1486.5
172.5°	1504.1	1499.4	1499.4	1507.6	1499.4
175°	1514.7	1508.8	1507.6	1515.9	1507.6
177.5°	1519.4	1513.5	1513.5	1521.7	1512.3
180°	1517.0	1517.0	1517.0	1517.0	1517.0

(END OF REPORT)