

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: P334834

Luminaire Tested: **S124IP-S1205U835-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334834
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-S1205U835-4F0-1E-UDD-1
Description: DEFINE 4 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT MOUNT, 1205 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4171.3 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

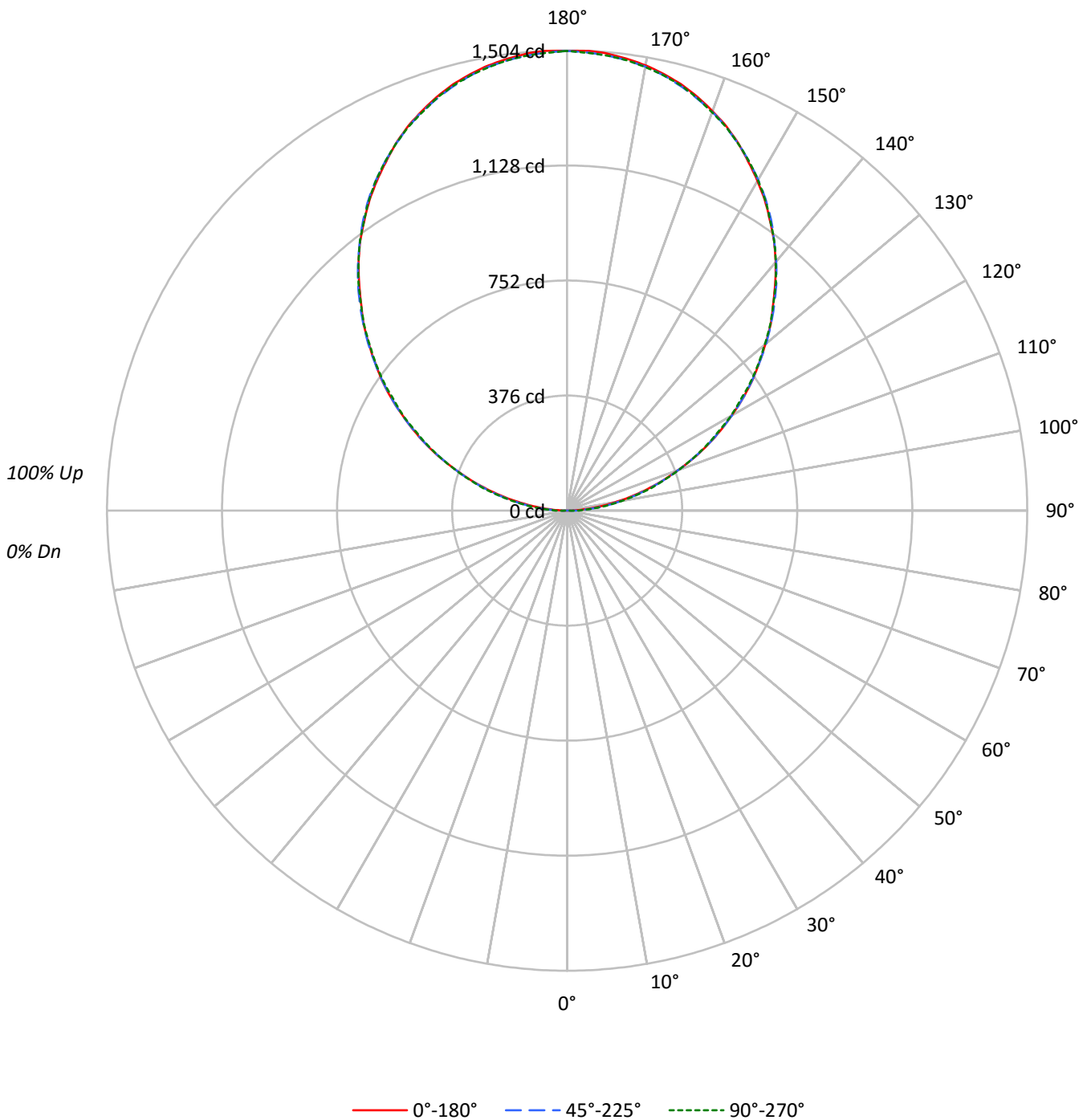
Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	97.9	2.3
100°-110°	293.3	7.0
110°-120°	498.2	11.9
120°-130°	657.1	15.8
130°-140°	738.0	17.7
140°-150°	725.4	17.4
150°-160°	610.1	14.6
160°-170°	405.9	9.7
170°-180°	142.1	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°	889.5	21.3
90°-150°	3009.9	72.2
90°-180°	4168.0	99.9
0°-180°	4171.3	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	32	35	5
95°	70	80	88	92	92	75
105°	271	272	276	280	284	287
115°	506	506	504	503	502	500
125°	738	738	737	734	732	658
135°	952	958	958	956	953	736
145°	1156	1161	1162	1161	1157	724
155°	1324	1324	1323	1328	1323	609
165°	1442	1438	1436	1443	1438	407
175°	1500	1494	1493	1501	1493	142
180°	1502	1502	1502	1502	1502	



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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	16.3	25.6	32.5	34.9
92.5°	30.2	45.3	51.1	54.6	55.8
95°	69.7	80.2	88.3	91.8	91.8
97.5°	111.5	120.8	130.1	134.8	134.8
100°	162.7	167.3	177.8	180.1	180.1
102.5°	216.1	217.3	226.6	230.0	231.2
105°	270.7	271.9	276.5	280.0	283.5
107.5°	327.6	328.8	330.0	334.6	333.4
110°	385.7	388.0	386.9	384.6	388.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	446.1	446.1	443.8	443.8	443.8
115°	506.5	506.5	504.2	503.1	501.9
117.5°	563.5	563.5	562.3	558.8	555.3
120°	620.4	625.0	621.6	615.8	618.1
122.5°	679.7	680.8	679.7	676.2	670.4
125°	737.7	737.7	736.6	734.3	731.9
127.5°	790.0	793.5	791.2	788.9	787.7
130°	845.8	849.3	849.3	847.0	842.3
132.5°	902.7	905.0	903.9	901.6	900.4
135°	951.5	958.5	958.5	956.2	952.7
137.5°	1006.1	1009.6	1011.9	1008.4	1009.6
140°	1060.7	1063.0	1063.0	1061.9	1060.7
142.5°	1110.7	1113.0	1111.8	1111.8	1111.8
145°	1156.0	1160.6	1161.8	1160.6	1157.2
147.5°	1202.5	1208.3	1207.1	1205.9	1204.8
150°	1244.3	1248.9	1248.9	1248.9	1247.8
152.5°	1283.8	1286.1	1287.3	1290.8	1287.3
155°	1324.4	1324.4	1323.3	1327.9	1323.3
157.5°	1359.3	1357.0	1357.0	1360.5	1357.0
160°	1389.5	1388.3	1387.2	1390.7	1384.9
162.5°	1417.4	1413.9	1412.7	1419.7	1413.9
165°	1441.8	1438.3	1436.0	1443.0	1438.3
167.5°	1461.5	1456.9	1456.9	1463.9	1456.9
170°	1477.8	1472.0	1473.2	1480.1	1472.0
172.5°	1489.4	1484.8	1484.8	1492.9	1484.8
175°	1499.9	1494.1	1492.9	1501.0	1492.9
177.5°	1504.5	1498.7	1498.7	1506.9	1497.6
180°	1502.2	1502.2	1502.2	1502.2	1502.2

(END OF REPORT)