

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: FAIL-SAFE

Report Number: P183394

Luminaire Tested: **SGI-G-24-4-LD4-2-LO-CA125-FA**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183394
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34506)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: SGI-G-24-4-LD4-2-LO-CA125-FA
Description:
Light Source: 2UT217042A8404A
Ballast/Driver: ELECTRONIC DRIVER

Summary

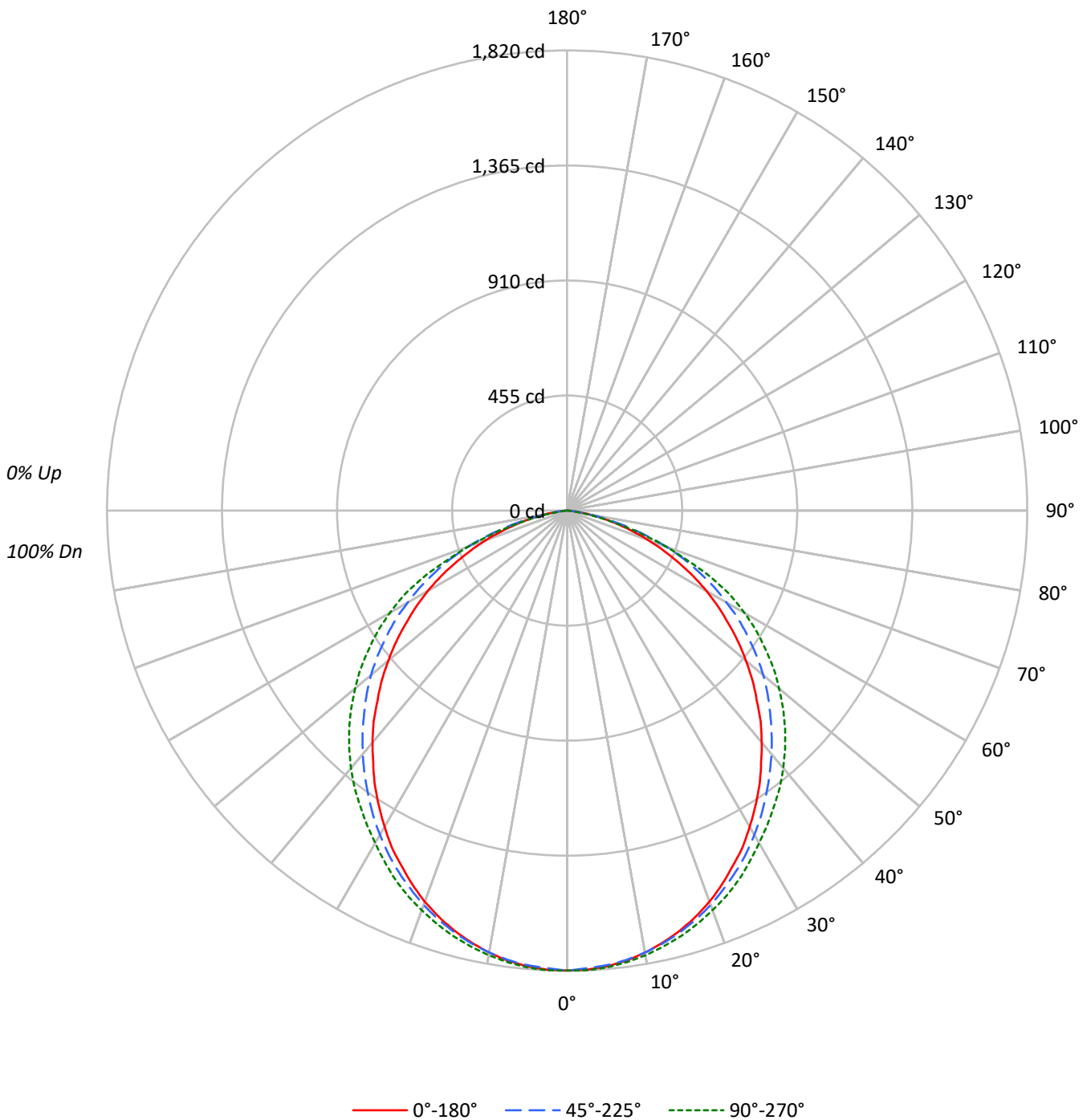
Lumens per Lamp: N/A
Luminaire Lumens: 4738.2 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.34
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 49.4
Input Voltage (V): NR
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2786	2786	2786
5°	2782	2775	2788
10°	2761	2761	2777
15°	2728	2738	2762
20°	2683	2706	2741
25°	2620	2665	2720
30°	2553	2619	2685
35°	2480	2566	2667
40°	2394	2513	2659
45°	2297	2460	2640
50°	2200	2414	2608
55°	2078	2335	2559
60°	1954	2231	2482
65°	1760	2084	2291
70°	1529	1866	1862
75°	1211	1422	1262
80°	810	820	576
85°	401	271	239



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.8	3.6
10°-20°	487.8	10.3
20°-30°	727.7	15.4
30°-40°	860.7	18.2
40°-50°	879.0	18.6
50°-60°	778.0	16.4
60°-70°	558.6	11.8
70°-80°	244.5	5.2
80°-90°	30.2	0.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1387.2	29.3
0°-40°	2247.9	47.4
0°-60°	3904.9	82.4
0°-90°	4738.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4738.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1819	1819	1819	1819	1819	
5°	1809	1810	1805	1812	1814	172
15°	1720	1724	1727	1739	1742	485
25°	1550	1560	1577	1602	1610	715
35°	1326	1342	1372	1412	1426	828
45°	1060	1084	1136	1199	1219	820
55°	778	804	874	934	958	697
65°	486	515	575	626	632	482
75°	205	224	240	228	213	220
85°	23	22	15	15	14	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1819.1	1819.1	1819.1	1819.1	1819.1
2.5°	1817.2	1817.8	1811.7	1818.4	1819.7
5°	1809.2	1809.8	1804.9	1812.3	1813.5
7.5°	1795.6	1796.3	1792.6	1800.6	1801.8
10°	1775.3	1776.5	1775.3	1785.2	1785.8
12.5°	1750.0	1751.9	1753.1	1764.2	1765.4
15°	1720.5	1723.5	1726.6	1738.9	1742.0
17.5°	1686.0	1689.7	1695.2	1710.6	1713.7
20°	1645.9	1649.6	1660.1	1677.9	1681.6
22.5°	1600.9	1607.7	1619.4	1642.2	1648.4
25°	1550.4	1560.2	1576.9	1601.5	1609.5
27.5°	1502.3	1510.3	1531.3	1558.4	1564.6
30°	1443.8	1459.2	1480.8	1510.9	1518.3
32.5°	1385.9	1400.6	1429.0	1461.0	1473.4
35°	1326.1	1341.5	1372.3	1411.7	1426.5
37.5°	1260.2	1279.9	1315.6	1362.4	1381.5
40°	1197.3	1215.8	1257.1	1310.7	1329.8
42.5°	1133.2	1149.2	1197.3	1256.5	1275.6
45°	1060.5	1084.5	1135.7	1199.1	1218.9
47.5°	994.6	1016.1	1075.9	1136.9	1157.9
50°	923.1	945.9	1013.1	1073.4	1094.4
52.5°	852.8	875.6	945.3	1005.0	1030.9
55°	778.3	803.5	874.4	934.2	958.2
57.5°	708.6	733.9	806.0	860.8	888.6
60°	637.8	660.0	728.4	786.9	810.3
62.5°	562.0	588.5	654.4	709.3	730.2
65°	485.6	515.2	574.9	626.1	632.2
67.5°	413.5	440.0	497.9	523.8	515.8
70°	341.4	366.6	416.6	415.3	415.9
72.5°	270.5	293.3	327.8	327.8	313.7
75°	204.6	223.7	240.3	228.0	213.2
77.5°	143.0	162.7	164.5	143.0	133.7
80°	91.8	105.4	93.0	76.4	65.3
82.5°	49.3	57.3	42.5	30.8	25.3
85°	22.8	22.2	15.4	14.8	13.6
87.5°	7.4	7.4	7.4	7.4	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)