

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: P183396

Luminaire Tested: **SGI-G-24-4-LD4-3-LO-CA125-FA**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183396
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34507)
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-LD4-3-LO-CA125-FA
Description:
Light Source: 2UT217042A8404A
Ballast/Driver: ELECTRONIC DRIVER

Summary

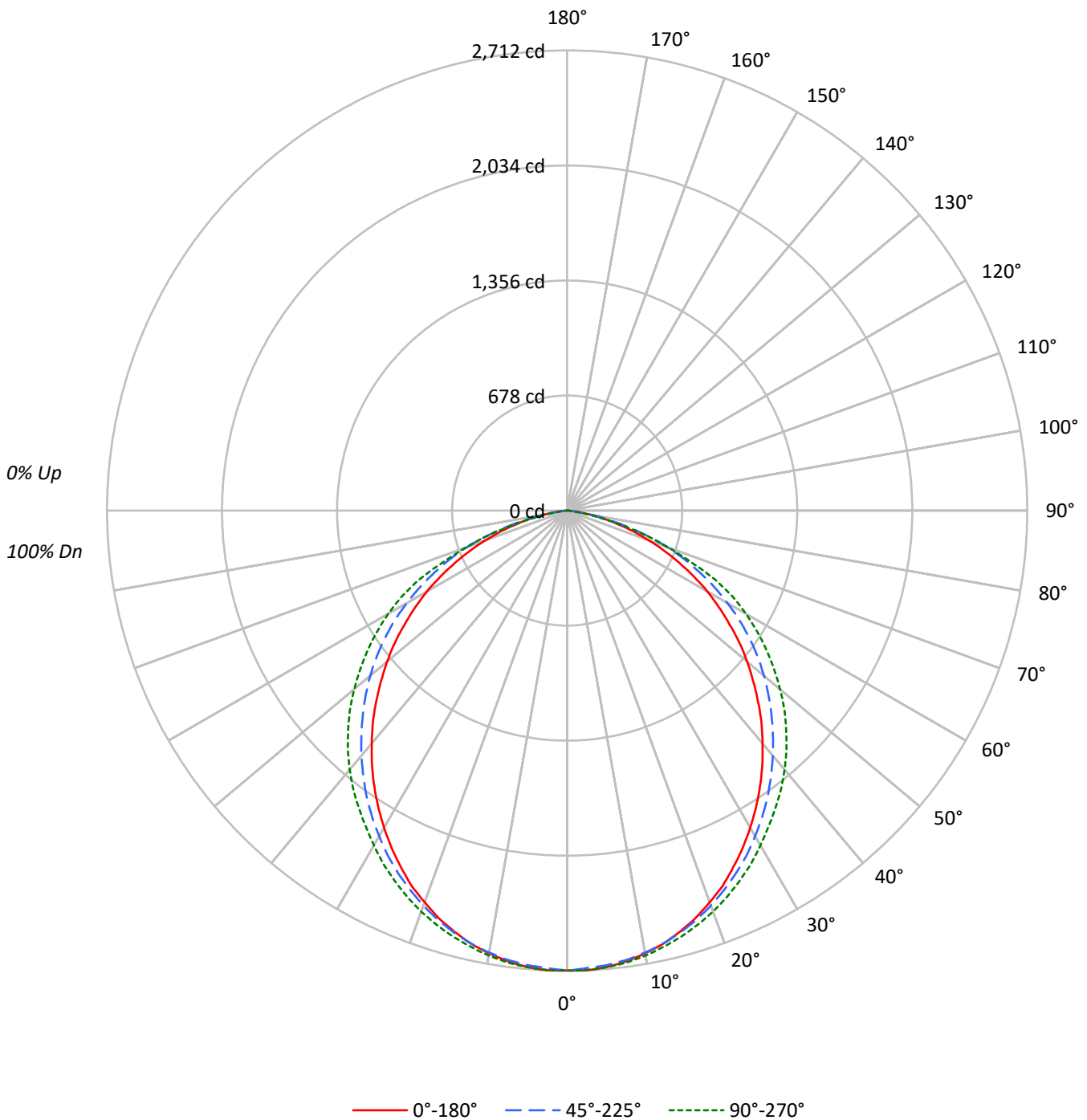
Lumens per Lamp: N/A
Luminaire Lumens: 7099.6 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.34
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 74.1
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	83	79	76	80	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	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	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	61	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	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4152	4152	4152
5°	4151	4134	4153
10°	4121	4114	4142
15°	4074	4083	4120
20°	4003	4038	4099
25°	3918	3984	4068
30°	3817	3919	4029
35°	3706	3851	4001
40°	3582	3770	3986
45°	3446	3689	3952
50°	3298	3609	3904
55°	3120	3503	3834
60°	2928	3347	3732
65°	2642	3122	3486
70°	2301	2806	2848
75°	1820	2174	1977
80°	1222	1272	913
85°	575	411	369



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.0	3.6
10°-20°	727.7	10.3
20°-30°	1087.7	15.3
30°-40°	1289.2	18.2
40°-50°	1316.9	18.5
50°-60°	1165.9	16.4
60°-70°	839.3	11.8
70°-80°	371.1	5.2
80°-90°	45.8	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°	2071.4	29.2
0°-40°	3360.6	47.3
0°-60°	5843.4	82.3
0°-90°	7099.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7099.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2711	2711	2711	2711	2711	
5°	2700	2696	2689	2700	2702	256
15°	2569	2569	2575	2596	2599	724
25°	2318	2330	2358	2398	2407	1068
35°	1982	2004	2059	2120	2140	1239
45°	1591	1622	1703	1794	1825	1227
55°	1168	1207	1312	1403	1436	1046
65°	729	773	862	939	962	723
75°	308	337	367	348	334	333
85°	33	35	23	22	21	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2710.7	2710.7	2710.7	2710.7	2710.7
2.5°	2711.9	2708.2	2698.4	2708.9	2710.7
5°	2700.2	2696.5	2689.1	2700.2	2701.5
7.5°	2679.3	2676.8	2671.3	2684.2	2686.1
10°	2649.7	2647.9	2645.4	2660.8	2663.3
12.5°	2615.2	2611.5	2614.0	2631.2	2632.5
15°	2569.0	2569.0	2575.1	2595.5	2598.6
17.5°	2517.8	2519.7	2528.9	2553.6	2559.7
20°	2456.2	2461.1	2477.2	2506.7	2514.8
22.5°	2394.6	2396.4	2418.6	2455.0	2463.6
25°	2318.2	2330.5	2357.6	2397.7	2406.9
27.5°	2241.2	2254.1	2290.5	2333.6	2346.5
30°	2158.0	2174.0	2215.9	2265.2	2278.1
32.5°	2071.7	2092.0	2139.5	2190.6	2209.1
35°	1982.3	2004.5	2059.4	2120.4	2140.1
37.5°	1889.9	1912.7	1973.1	2045.2	2071.1
40°	1791.3	1816.0	1885.6	1966.3	1993.4
42.5°	1695.8	1721.1	1795.0	1884.4	1913.3
45°	1591.1	1622.5	1703.2	1794.4	1824.6
47.5°	1486.9	1527.0	1610.2	1702.6	1737.1
50°	1384.0	1416.7	1514.6	1608.3	1638.5
52.5°	1280.5	1310.7	1415.4	1508.5	1537.4
55°	1168.3	1207.2	1311.9	1403.1	1435.8
57.5°	1061.1	1095.6	1204.7	1294.0	1327.9
60°	955.7	989.0	1092.5	1183.1	1218.2
62.5°	840.5	881.2	979.2	1063.6	1101.2
65°	729.0	773.3	861.5	939.1	961.9
67.5°	620.5	659.3	745.0	789.4	785.1
70°	513.9	550.3	626.7	632.8	635.9
72.5°	409.8	440.6	494.8	497.3	486.8
75°	307.5	337.1	367.3	347.5	334.0
77.5°	219.4	243.4	250.2	216.3	208.3
80°	138.6	159.6	144.2	114.6	103.5
82.5°	77.6	83.8	66.6	46.2	38.8
85°	32.7	35.1	23.4	21.6	21.0
87.5°	10.5	10.5	11.1	10.5	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)