

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: P183395

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183395
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-STD-CA125-FA
Description:
Light Source: 2UT217042A8404A
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9454.9 lumens
Efficiency: N/A
Efficacy: 91.1 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

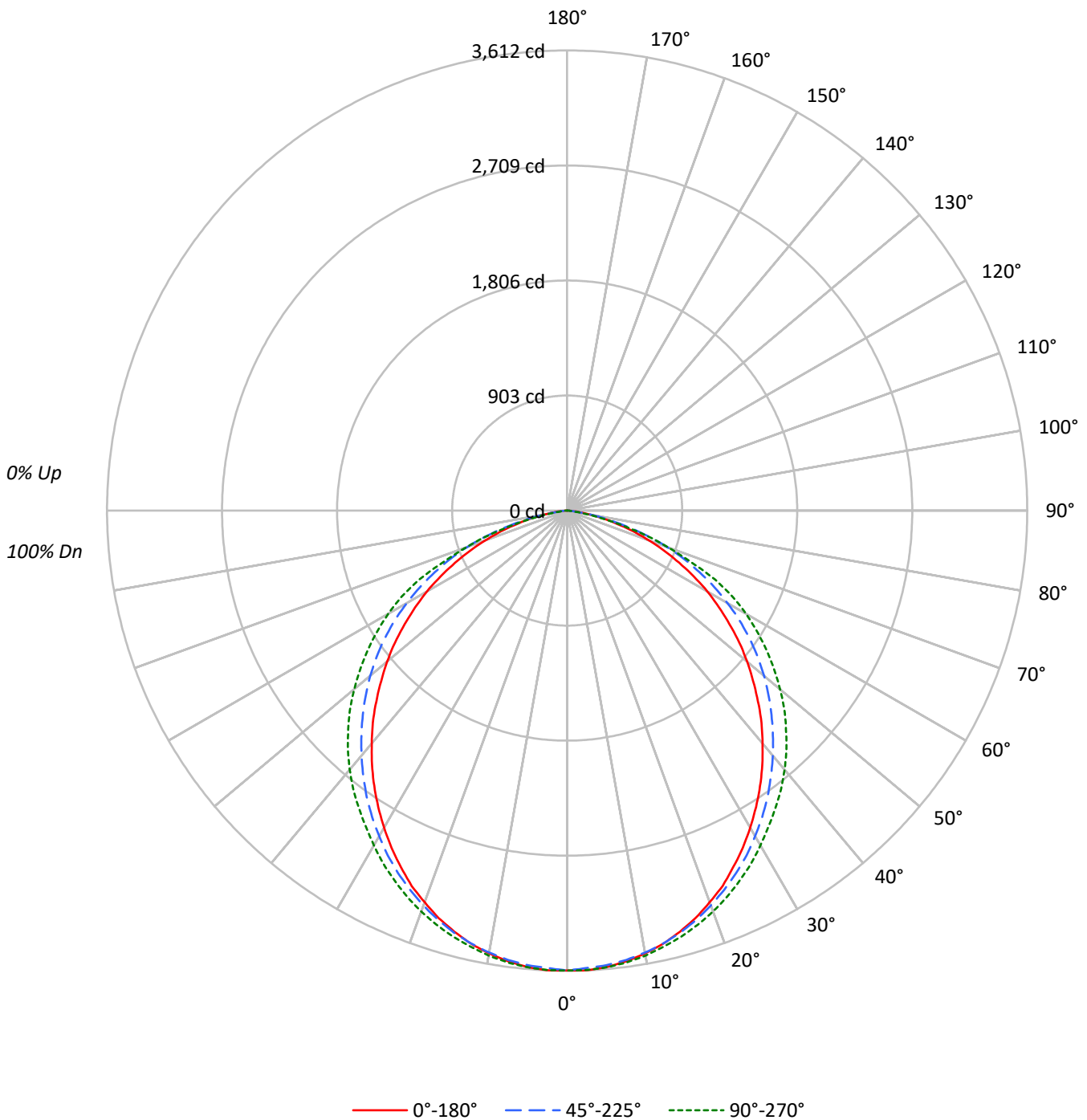
Input Watts (W): 103.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5529	5529	5529
5°	5529	5506	5531
10°	5488	5479	5516
15°	5425	5438	5487
20°	5332	5377	5459
25°	5217	5306	5417
30°	5083	5219	5366
35°	4936	5128	5329
40°	4770	5021	5308
45°	4590	4913	5263
50°	4392	4806	5199
55°	4155	4666	5106
60°	3899	4457	4970
65°	3518	4158	4643
70°	3065	3737	3793
75°	2423	2894	2632
80°	1628	1693	1216
85°	764	548	490



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.0	3.6
10°-20°	969.2	10.3
20°-30°	1448.5	15.3
30°-40°	1716.8	18.2
40°-50°	1753.9	18.5
50°-60°	1552.7	16.4
60°-70°	1117.7	11.8
70°-80°	494.2	5.2
80°-90°	61.0	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°	2758.7	29.2
0°-40°	4475.5	47.3
0°-60°	7782.1	82.3
0°-90°	9454.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9454.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3610	3610	3610	3610	3610	
5°	3596	3591	3581	3596	3598	341
15°	3421	3421	3430	3457	3461	964
25°	3087	3104	3140	3193	3205	1422
35°	2640	2670	2743	2824	2850	1650
45°	2119	2161	2268	2390	2430	1634
55°	1556	1608	1747	1869	1912	1393
65°	971	1030	1147	1251	1281	963
75°	410	449	489	463	445	443
85°	44	47	31	29	28	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3610.0	3610.0	3610.0	3610.0	3610.0
2.5°	3611.7	3606.7	3593.6	3607.6	3610.0
5°	3596.1	3591.1	3581.3	3596.1	3597.7
7.5°	3568.2	3564.9	3557.5	3574.7	3577.2
10°	3528.8	3526.3	3523.0	3543.5	3546.8
12.5°	3482.8	3477.9	3481.2	3504.2	3505.8
15°	3421.3	3421.3	3429.5	3456.6	3460.7
17.5°	3353.2	3355.6	3367.9	3400.8	3409.0
20°	3271.1	3277.7	3299.0	3338.4	3349.1
22.5°	3189.0	3191.5	3221.0	3269.4	3280.9
25°	3087.3	3103.7	3139.8	3193.1	3205.4
27.5°	2984.7	3001.9	3050.3	3107.8	3125.0
30°	2873.9	2895.2	2951.0	3016.7	3033.9
32.5°	2759.0	2786.1	2849.3	2917.4	2942.0
35°	2640.0	2669.6	2742.6	2823.8	2850.1
37.5°	2516.9	2547.3	2627.7	2723.7	2758.2
40°	2385.6	2418.4	2511.2	2618.7	2654.8
42.5°	2258.4	2292.1	2390.5	2509.5	2548.1
45°	2118.9	2160.8	2268.3	2389.7	2429.9
47.5°	1980.2	2033.6	2144.3	2267.4	2313.4
50°	1843.2	1886.7	2017.1	2141.9	2182.1
52.5°	1705.3	1745.5	1885.0	2008.9	2047.5
55°	1555.9	1607.6	1747.2	1868.6	1912.1
57.5°	1413.2	1459.1	1604.4	1723.4	1768.5
60°	1272.8	1317.1	1455.0	1575.6	1622.4
62.5°	1119.4	1173.5	1304.0	1416.4	1466.5
65°	970.8	1029.9	1147.3	1250.7	1281.0
67.5°	826.4	878.1	992.2	1051.2	1045.5
70°	684.4	732.8	834.6	842.8	846.9
72.5°	545.7	586.8	659.0	662.3	648.3
75°	409.5	448.9	489.1	462.8	444.8
77.5°	292.1	324.2	333.2	288.0	277.4
80°	184.6	212.5	192.0	152.6	137.9
82.5°	103.4	111.6	88.6	61.5	51.7
85°	43.5	46.8	31.2	28.7	27.9
87.5°	14.0	14.0	14.8	14.0	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)