

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: P183390

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34504)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: SGI-G-24-2-LD4-2-LO-CA125-FA
Description:
Light Source: 2UT217042A8404A
Ballast/Driver: ELECTRONIC DRIVER

Summary

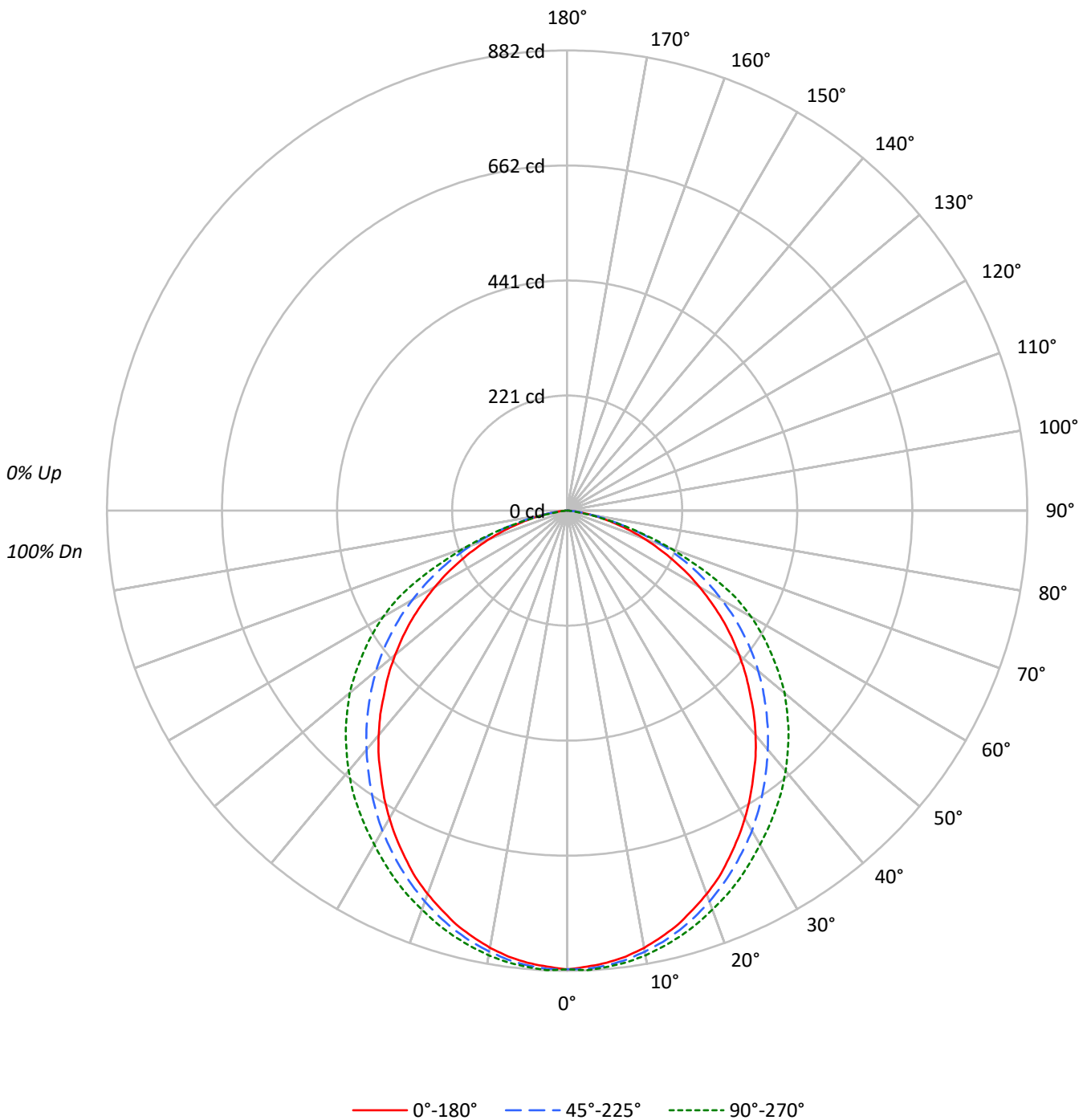
Lumens per Lamp: N/A
Luminaire Lumens: 2268.3 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.25 / 1.33
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.7
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	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	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	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	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°	2816	2816	2816
5°	2797	2813	2823
10°	2767	2791	2815
15°	2723	2760	2797
20°	2665	2718	2774
25°	2595	2670	2757
30°	2520	2620	2735
35°	2431	2561	2727
40°	2349	2501	2723
45°	2244	2442	2718
50°	2143	2382	2711
55°	2026	2301	2667
60°	1875	2191	2609
65°	1695	2050	2400
70°	1471	1841	1962
75°	1174	1388	1388
80°	808	874	671
85°	452	364	250



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	3.7
10°-20°	234.6	10.3
20°-30°	348.3	15.4
30°-40°	411.2	18.1
40°-50°	419.3	18.5
50°-60°	372.3	16.4
60°-70°	266.7	11.8
70°-80°	117.1	5.2
80°-90°	15.9	0.7
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°	665.9	29.4
0°-40°	1077.1	47.5
0°-60°	1868.6	82.4
0°-90°	2268.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2268.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	879	879	879	879	879	
5°	870	872	875	878	878	82
15°	821	824	832	840	844	231
25°	734	741	756	772	780	338
35°	622	632	655	682	698	390
45°	495	506	539	580	600	383
55°	363	380	412	455	478	324
65°	224	242	270	306	317	222
75°	95	103	112	113	112	103
85°	12	13	10	8	7	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	879.3	879.3	879.3	879.3	879.3
2.5°	875.0	876.3	879.3	881.2	881.8
5°	870.1	871.9	875.0	877.5	878.1
7.5°	862.1	863.9	868.2	871.9	873.2
10°	851.0	853.5	858.4	863.3	865.8
12.5°	836.8	839.3	846.7	852.8	855.3
15°	821.4	823.9	832.5	840.5	843.6
17.5°	801.7	806.0	815.9	825.7	830.0
20°	782.0	785.7	797.4	809.7	814.0
22.5°	760.4	763.5	777.0	791.8	798.0
25°	734.5	740.7	755.5	772.1	780.1
27.5°	708.6	714.2	732.1	751.2	759.8
30°	681.5	688.3	708.6	728.4	739.5
32.5°	652.6	660.6	682.1	705.6	719.1
35°	621.8	631.6	655.0	682.1	697.6
37.5°	593.4	600.8	626.7	658.7	676.0
40°	562.0	571.2	598.3	633.5	651.3
42.5°	529.9	539.2	569.4	607.6	626.1
45°	495.4	505.9	539.2	579.9	600.2
47.5°	464.0	473.9	509.0	551.5	571.8
50°	430.1	441.8	478.2	520.7	544.1
52.5°	396.8	414.1	446.1	489.3	511.5
55°	362.9	380.2	412.2	455.4	477.6
57.5°	327.2	346.3	378.4	421.5	443.7
60°	292.7	310.6	342.0	384.5	407.3
62.5°	258.8	276.1	307.5	346.3	367.3
65°	223.7	241.6	270.5	306.3	316.7
67.5°	189.2	204.6	232.3	253.9	258.8
70°	157.1	168.2	196.6	203.4	209.5
72.5°	125.1	134.3	153.4	159.6	159.0
75°	94.9	102.9	112.2	113.4	112.2
77.5°	69.0	73.9	78.3	72.7	69.6
80°	43.8	48.1	47.4	40.1	36.4
82.5°	25.3	28.3	24.0	17.9	12.9
85°	12.3	12.9	9.9	8.0	6.8
87.5°	4.3	4.9	4.3	3.7	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)