

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P974733

Luminaire Tested: FLR2-24-80HE-L835-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-80HE-L835-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

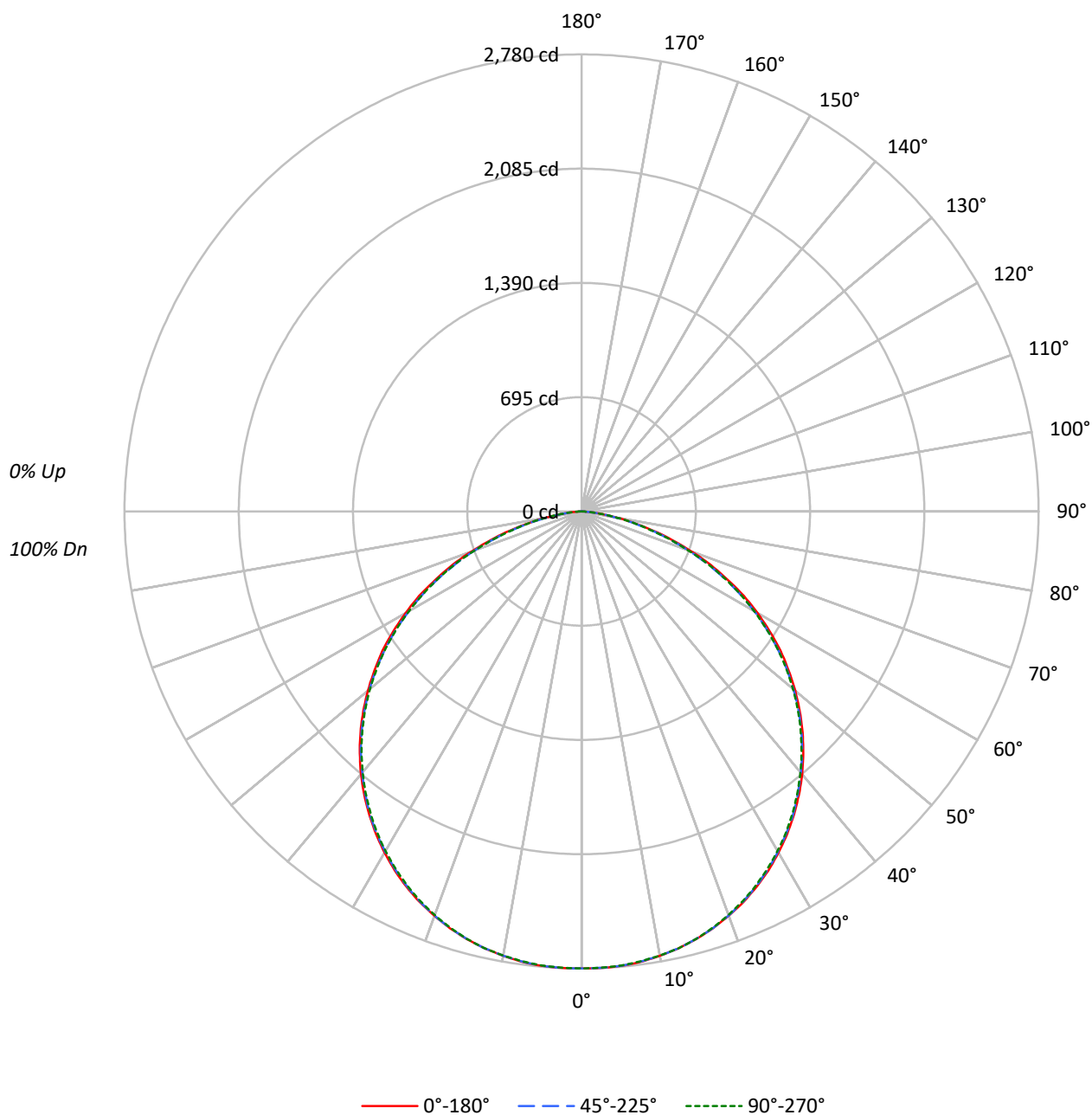
Lumens per Lamp: N/A
Luminaire Lumens: 7856.3 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 63.5
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 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				0
RW	70	50	30	10	70	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		100
1	109	105	100	97	106	102	99	95	98	95	92		94	92	89		85
2	99	91	85	79	97	89	83	78	86	81	76		83	78	75		71
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		60
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		51
5	76	64	55	48	74	62	54	48	60	53	47		58	52	47		44
6	70	57	48	42	69	56	48	42	54	47	41		53	46	41		38
7	65	52	43	37	64	51	43	37	49	42	37		48	41	36		34
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		30
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		27
10	53	40	32	27	52	39	32	27	38	31	27		38	31	26		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3740	3740	3740
5°	3748	3748	3745
10°	3750	3749	3747
15°	3751	3750	3750
20°	3747	3746	3740
25°	3740	3733	3727
30°	3724	3713	3705
35°	3699	3689	3676
40°	3667	3644	3639
45°	3619	3598	3587
50°	3551	3524	3514
55°	3467	3418	3414
60°	3323	3264	3264
65°	3109	3036	3045
70°	2797	2711	2703
75°	2349	2256	2245
80°	1715	1630	1700
85°	969	892	908

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3619 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.8	3.4
10°-20°	760.1	9.7
20°-30°	1158.9	14.8
30°-40°	1404.1	17.9
40°-50°	1458.5	18.6
50°-60°	1304.8	16.6
60°-70°	950.9	12.1
70°-80°	470.9	6.0
80°-90°	84.2	1.1
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°	2182.9	27.8
0°-40°	3587.0	45.7
0°-60°	6350.3	80.8
0°-90°	7856.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7856.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2780	2780	2780	2780	2780	
5°	2775	2776	2775	2775	2773	264
15°	2693	2692	2692	2694	2692	760
25°	2519	2516	2514	2513	2510	1161
35°	2252	2249	2246	2242	2238	1409
45°	1902	1898	1891	1887	1885	1466
55°	1478	1467	1457	1457	1455	1317
65°	976	968	954	958	956	968
75°	452	445	434	442	432	482
85°	63	58	58	59	59	87
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2779.7	2779.7	2779.7	2779.7	2779.7
2.5°	2779.7	2778.7	2778.7	2779.7	2777.7
5°	2774.7	2775.7	2774.7	2774.7	2772.7
7.5°	2763.8	2762.8	2761.8	2762.8	2759.8
10°	2744.8	2744.8	2743.8	2744.8	2742.8
12.5°	2721.9	2721.9	2721.9	2722.9	2721.9
15°	2692.9	2691.9	2691.9	2693.9	2691.9
17.5°	2659.0	2658.0	2658.0	2657.0	2655.0
20°	2617.1	2617.1	2616.1	2615.1	2612.2
22.5°	2572.3	2571.3	2568.3	2568.3	2564.3
25°	2519.4	2516.4	2514.4	2513.4	2510.4
27.5°	2461.5	2457.6	2454.6	2452.6	2449.6
30°	2396.7	2392.7	2389.7	2386.7	2384.7
32.5°	2326.9	2324.9	2319.9	2318.9	2314.9
35°	2252.1	2249.1	2246.1	2242.1	2238.1
37.5°	2172.3	2169.3	2162.3	2160.3	2157.3
40°	2087.5	2083.5	2074.6	2074.6	2071.6
42.5°	1996.8	1992.8	1986.8	1982.8	1980.8
45°	1902.0	1898.0	1891.0	1887.1	1885.1
47.5°	1801.3	1798.3	1790.3	1787.3	1784.3
50°	1696.6	1692.6	1683.6	1681.6	1678.6
52.5°	1586.8	1584.8	1572.9	1571.9	1568.9
55°	1478.1	1467.2	1457.2	1457.2	1455.2
57.5°	1358.4	1350.5	1337.5	1337.5	1335.5
60°	1234.8	1227.8	1212.8	1214.8	1212.8
62.5°	1114.1	1099.1	1085.2	1091.1	1086.2
65°	976.4	968.5	953.5	957.5	956.5
67.5°	850.8	835.8	821.8	829.8	825.8
70°	711.1	703.2	689.2	697.2	687.2
72.5°	579.5	572.5	558.5	567.5	557.5
75°	451.8	444.8	433.9	441.8	431.9
77.5°	331.1	326.1	316.2	324.2	326.1
80°	221.4	215.4	210.4	217.4	219.4
82.5°	129.7	125.7	123.7	124.7	129.7
85°	62.8	57.8	57.8	58.8	58.8
87.5°	17.0	15.0	17.0	18.0	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)