

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: P974667

Luminaire Tested: FLR2-24-80HE-L835-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974667
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-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

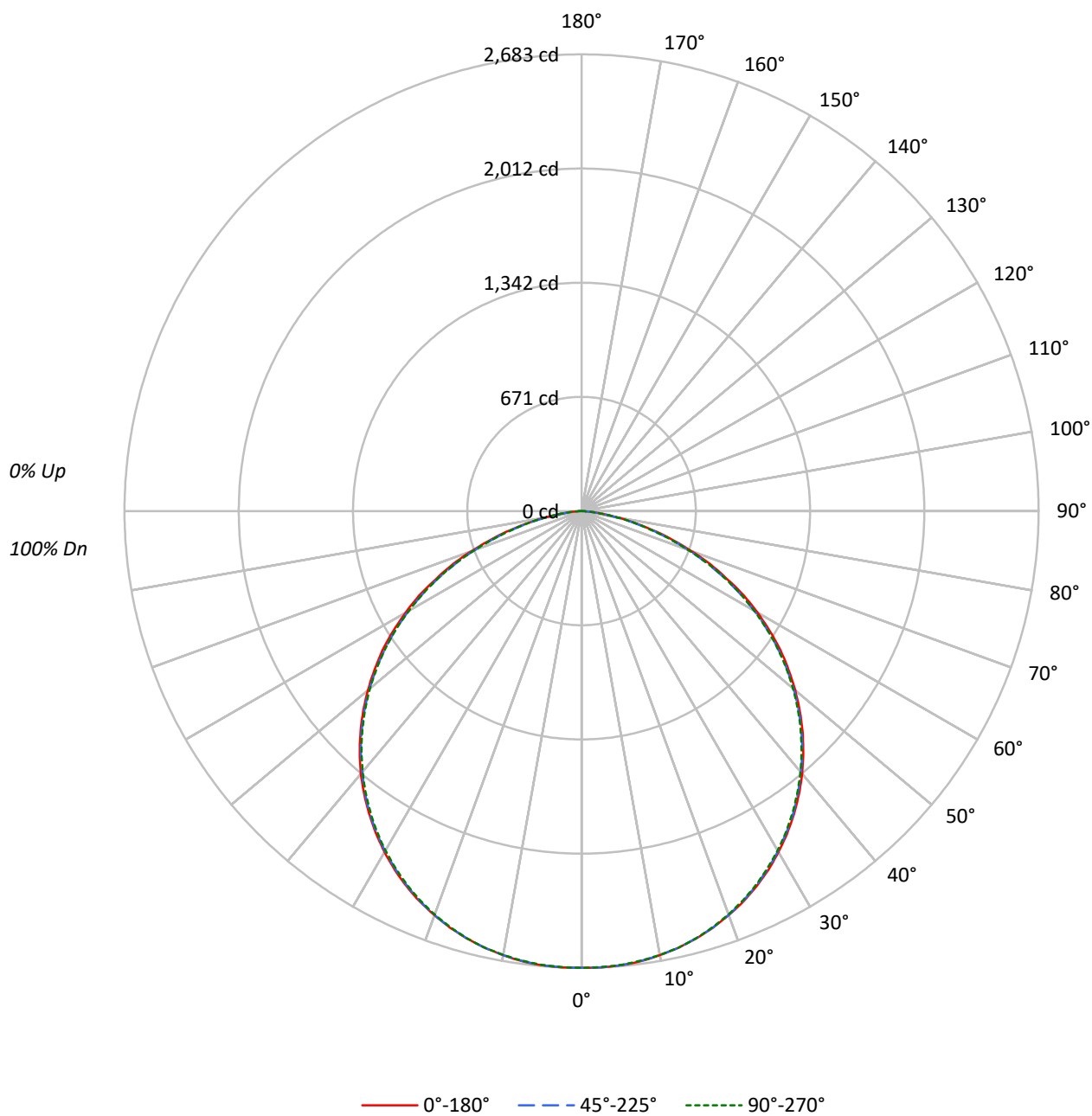
Lumens per Lamp: N/A
Luminaire Lumens: 7582.6 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	100	97	106	102	99	95	98	95	92		94	92	89		91
2	99	91	85	79	97	89	83	78	86	81	76		83	78	75		80
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		70
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63
5	76	64	55	48	74	62	54	48	60	53	47		58	52	47		56
6	70	57	48	42	69	56	48	42	54	47	41		53	46	41		51
7	65	52	43	37	64	51	43	37	49	42	37		48	41	36		47
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		39
10	53	40	32	27	52	39	32	27	38	31	27		38	31	26		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3610	3610	3610
5°	3617	3617	3614
10°	3619	3618	3617
15°	3620	3619	3619
20°	3617	3615	3610
25°	3610	3603	3597
30°	3594	3583	3576
35°	3570	3561	3548
40°	3539	3517	3512
45°	3493	3473	3462
50°	3427	3401	3391
55°	3347	3299	3295
60°	3207	3150	3150
65°	3000	2930	2939
70°	2700	2617	2609
75°	2267	2177	2167
80°	1656	1574	1641
85°	936	861	877

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3493 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.7	3.4
10°-20°	733.6	9.7
20°-30°	1118.5	14.8
30°-40°	1355.2	17.9
40°-50°	1407.7	18.6
50°-60°	1259.3	16.6
60°-70°	917.8	12.1
70°-80°	454.5	6.0
80°-90°	81.2	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°	2106.8	27.8
0°-40°	3462.0	45.7
0°-60°	6129.0	80.8
0°-90°	7582.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7582.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2683	2683	2683	2683	2683	
5°	2678	2679	2678	2678	2676	255
15°	2599	2598	2598	2600	2598	734
25°	2432	2429	2427	2426	2423	1121
35°	2174	2171	2168	2164	2160	1360
45°	1836	1832	1825	1821	1819	1415
55°	1427	1416	1406	1406	1404	1271
65°	942	935	920	924	923	934
75°	436	429	419	426	417	465
85°	61	56	56	57	57	84
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2682.9	2682.9	2682.9	2682.9	2682.9
2.5°	2682.9	2681.9	2681.9	2682.9	2680.9
5°	2678.1	2679.0	2678.1	2678.1	2676.1
7.5°	2667.5	2666.5	2665.5	2666.5	2663.6
10°	2649.2	2649.2	2648.2	2649.2	2647.2
12.5°	2627.0	2627.0	2627.0	2628.0	2627.0
15°	2599.1	2598.2	2598.2	2600.1	2598.2
17.5°	2566.4	2565.4	2565.4	2564.5	2562.5
20°	2526.0	2526.0	2525.0	2524.0	2521.1
22.5°	2482.6	2481.7	2478.8	2478.8	2474.9
25°	2431.6	2428.7	2426.8	2425.8	2423.0
27.5°	2375.8	2371.9	2369.0	2367.1	2364.2
30°	2313.2	2309.4	2306.5	2303.6	2301.7
32.5°	2245.8	2243.9	2239.1	2238.1	2234.3
35°	2173.6	2170.7	2167.9	2164.0	2160.2
37.5°	2096.6	2093.7	2087.0	2085.1	2082.2
40°	2014.8	2010.9	2002.3	2002.3	1999.4
42.5°	1927.2	1923.3	1917.6	1913.7	1911.8
45°	1835.7	1831.9	1825.2	1821.3	1819.4
47.5°	1738.5	1735.6	1727.9	1725.0	1722.2
50°	1637.4	1633.6	1624.9	1623.0	1620.1
52.5°	1531.6	1529.6	1518.1	1517.1	1514.2
55°	1426.6	1416.0	1406.4	1406.4	1404.5
57.5°	1311.1	1303.4	1290.9	1290.9	1289.0
60°	1191.7	1185.0	1170.6	1172.5	1170.6
62.5°	1075.3	1060.8	1047.3	1053.1	1048.3
65°	942.4	934.7	920.3	924.1	923.2
67.5°	821.1	806.7	793.2	800.9	797.1
70°	686.4	678.7	665.2	672.9	663.3
72.5°	559.3	552.6	539.1	547.7	538.1
75°	436.1	429.3	418.7	426.4	416.8
77.5°	319.6	314.8	305.2	312.9	314.8
80°	213.7	207.9	203.1	209.9	211.8
82.5°	125.1	121.3	119.4	120.3	125.1
85°	60.6	55.8	55.8	56.8	56.8
87.5°	16.4	14.4	16.4	17.3	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)