

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: P974688

Luminaire Tested: FLR2-24-72HE-L835-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974688
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: FLR2-24-72HE-L835-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

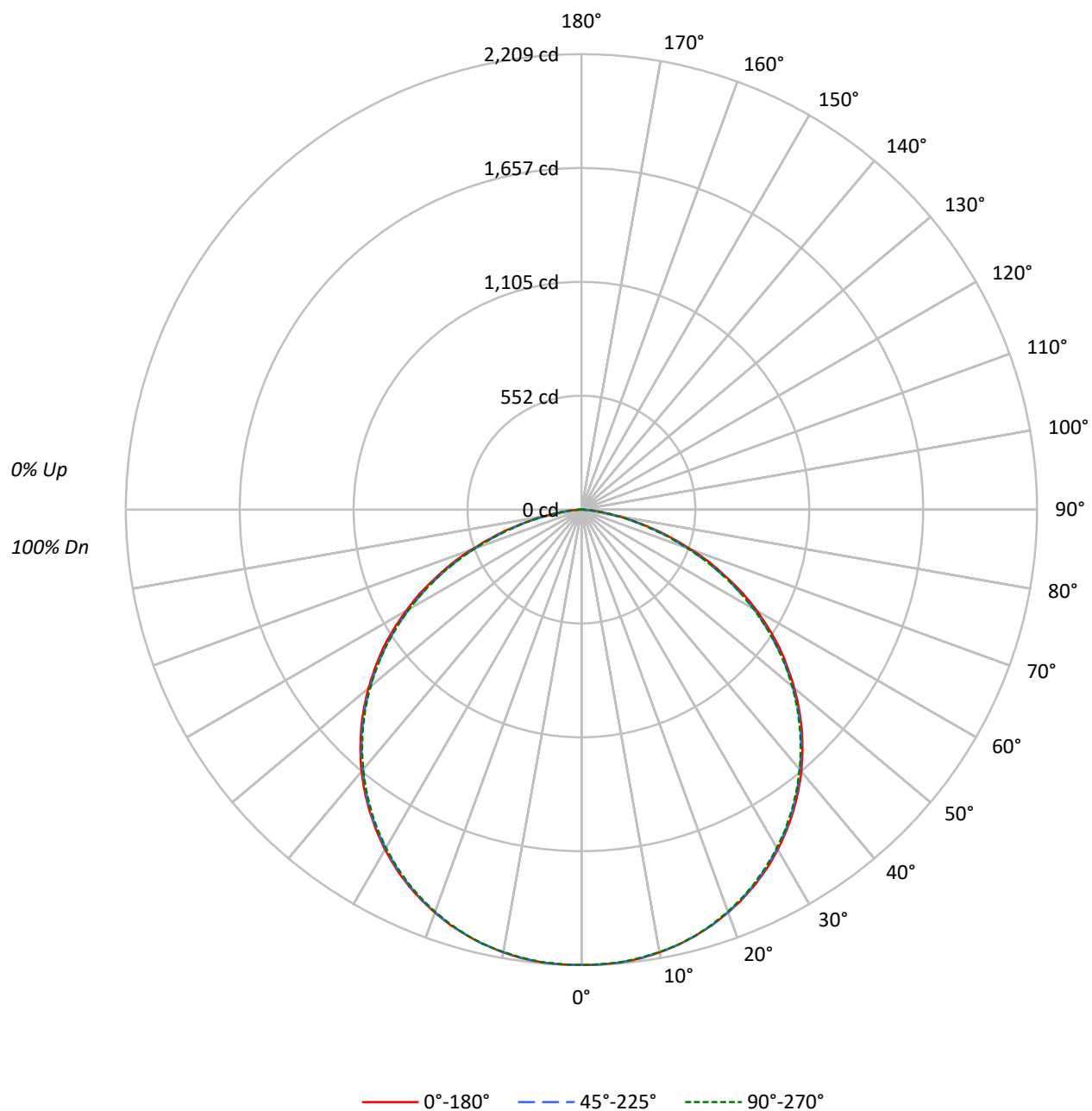
Lumens per Lamp: N/A
Luminaire Lumens: 6242.1 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 53.6
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	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71		71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60		60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27		27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2972	2972	2972
5°	2978	2978	2975
10°	2980	2978	2977
15°	2980	2979	2979
20°	2977	2976	2972
25°	2972	2966	2961
30°	2959	2950	2944
35°	2939	2931	2921
40°	2913	2895	2891
45°	2876	2859	2850
50°	2822	2800	2792
55°	2755	2716	2712
60°	2640	2593	2593
65°	2470	2412	2420
70°	2223	2154	2148
75°	1866	1792	1784
80°	1363	1296	1351
85°	770	710	722

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2876 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.6	3.4
10°-20°	603.9	9.7
20°-30°	920.8	14.8
30°-40°	1115.6	17.9
40°-50°	1158.8	18.6
50°-60°	1036.7	16.6
60°-70°	755.5	12.1
70°-80°	374.2	6.0
80°-90°	66.9	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°	1734.4	27.8
0°-40°	2850.0	45.7
0°-60°	5045.5	80.8
0°-90°	6242.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6242.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2209	2209	2209	2209	2209	
5°	2205	2205	2205	2205	2203	210
15°	2140	2139	2139	2140	2139	604
25°	2002	1999	1998	1997	1995	923
35°	1789	1787	1785	1781	1778	1119
45°	1511	1508	1502	1499	1498	1165
55°	1174	1166	1158	1158	1156	1046
65°	776	770	758	761	760	769
75°	359	353	345	351	343	383
85°	50	46	46	47	47	69
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2208.6	2208.6	2208.6	2208.6	2208.6
2.5°	2208.6	2207.8	2207.8	2208.6	2207.0
5°	2204.6	2205.4	2204.6	2204.6	2203.0
7.5°	2195.9	2195.1	2194.3	2195.1	2192.7
10°	2180.8	2180.8	2180.0	2180.8	2179.2
12.5°	2162.6	2162.6	2162.6	2163.4	2162.6
15°	2139.6	2138.8	2138.8	2140.4	2138.8
17.5°	2112.7	2111.9	2111.9	2111.1	2109.5
20°	2079.4	2079.4	2078.6	2077.8	2075.4
22.5°	2043.7	2042.9	2040.6	2040.6	2037.4
25°	2001.7	1999.4	1997.8	1997.0	1994.6
27.5°	1955.8	1952.6	1950.2	1948.6	1946.3
30°	1904.3	1901.1	1898.7	1896.3	1894.8
32.5°	1848.8	1847.2	1843.2	1842.4	1839.3
35°	1789.4	1787.0	1784.6	1781.4	1778.3
37.5°	1726.0	1723.6	1718.0	1716.4	1714.1
40°	1658.6	1655.4	1648.3	1648.3	1645.9
42.5°	1586.5	1583.3	1578.6	1575.4	1573.8
45°	1511.2	1508.0	1502.5	1499.3	1497.7
47.5°	1431.2	1428.8	1422.4	1420.1	1417.7
50°	1348.0	1344.8	1337.7	1336.1	1333.7
52.5°	1260.8	1259.2	1249.7	1248.9	1246.5
55°	1174.4	1165.7	1157.8	1157.8	1156.2
57.5°	1079.3	1073.0	1062.7	1062.7	1061.1
60°	981.1	975.5	963.6	965.2	963.6
62.5°	885.2	873.3	862.2	866.9	863.0
65°	775.8	769.5	757.6	760.8	760.0
67.5°	676.0	664.1	653.0	659.3	656.1
70°	565.0	558.7	547.6	553.9	546.0
72.5°	460.4	454.9	443.8	450.9	443.0
75°	359.0	353.4	344.7	351.1	343.1
77.5°	263.1	259.1	251.2	257.5	259.1
80°	175.9	171.2	167.2	172.8	174.3
82.5°	103.0	99.8	98.3	99.1	103.0
85°	49.9	46.0	46.0	46.8	46.8
87.5°	13.5	11.9	13.5	14.3	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)