

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: P974207

Luminaire Tested: FLR2-24-65-L835-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974207
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: FLR2-24-65-L835-CP375
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-65-L835-CP375
Ballast/Driver: -

Summary

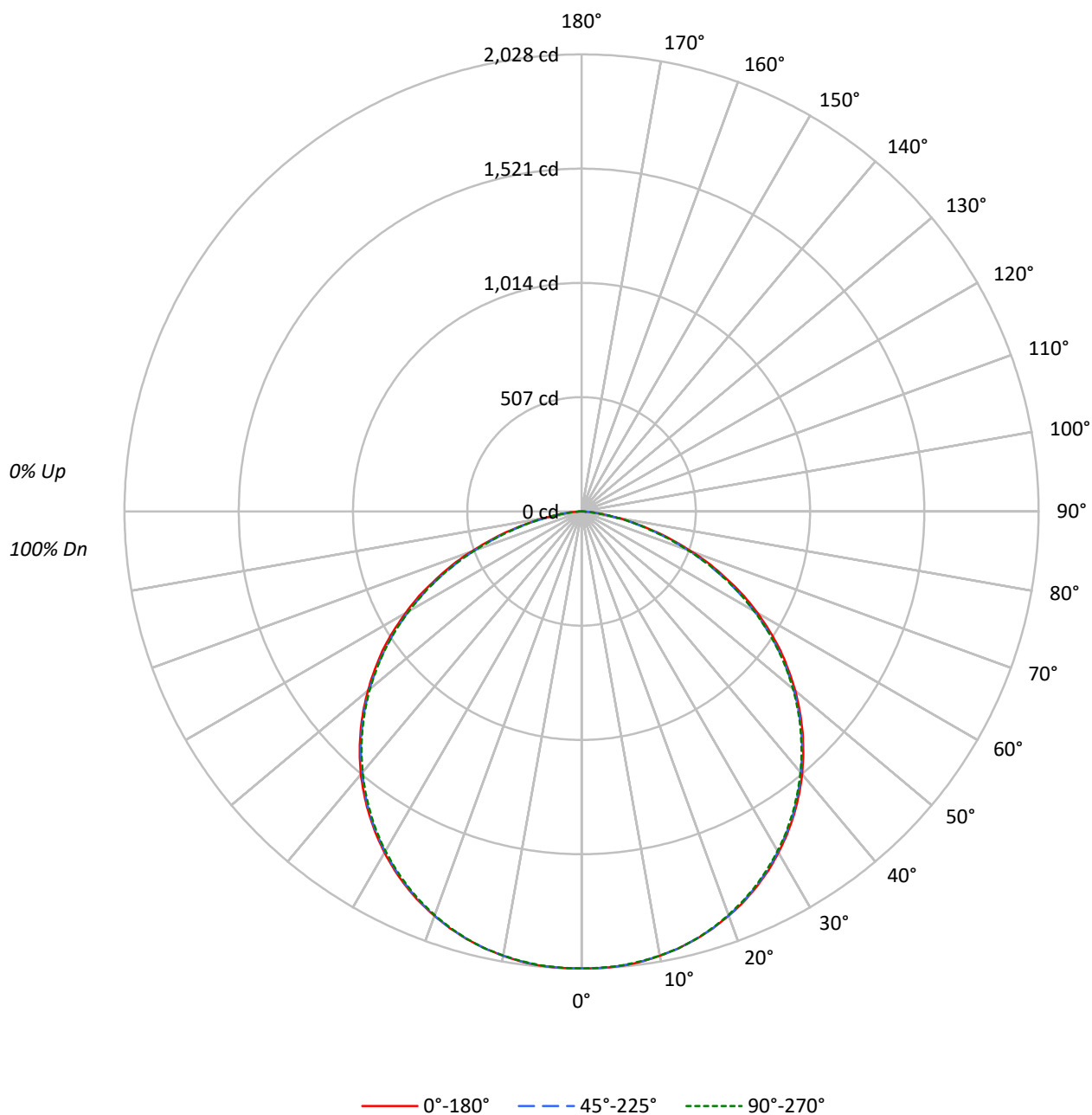
Lumens per Lamp: N/A
Luminaire Lumens: 5731.4 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 53.4
Input Voltage (V): 120
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°	2729	2729	2729
5°	2734	2734	2732
10°	2736	2735	2734
15°	2737	2736	2736
20°	2734	2733	2729
25°	2729	2723	2719
30°	2717	2709	2703
35°	2699	2691	2682
40°	2675	2658	2654
45°	2640	2625	2617
50°	2591	2571	2563
55°	2529	2494	2490
60°	2424	2381	2381
65°	2268	2215	2222
70°	2041	1978	1972
75°	1713	1645	1638
80°	1251	1189	1241
85°	707	651	662

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2640 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.5	3.4
10°-20°	554.5	9.7
20°-30°	845.5	14.8
30°-40°	1024.4	17.9
40°-50°	1064.0	18.6
50°-60°	951.9	16.6
60°-70°	693.7	12.1
70°-80°	343.6	6.0
80°-90°	61.4	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°	1592.5	27.8
0°-40°	2616.8	45.7
0°-60°	4632.7	80.8
0°-90°	5731.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5731.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2028	2028	2028	2028	2028	
5°	2024	2025	2024	2024	2023	193
15°	1965	1964	1964	1965	1964	555
25°	1838	1836	1834	1834	1831	847
35°	1643	1641	1639	1636	1633	1028
45°	1388	1385	1380	1377	1375	1069
55°	1078	1070	1063	1063	1062	961
65°	712	706	696	698	698	706
75°	330	324	316	322	315	351
85°	46	42	42	43	43	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2027.9	2027.9	2027.9	2027.9	2027.9
2.5°	2027.9	2027.2	2027.2	2027.9	2026.4
5°	2024.2	2025.0	2024.2	2024.2	2022.8
7.5°	2016.2	2015.5	2014.8	2015.5	2013.3
10°	2002.4	2002.4	2001.7	2002.4	2001.0
12.5°	1985.7	1985.7	1985.7	1986.4	1985.7
15°	1964.6	1963.9	1963.9	1965.3	1963.9
17.5°	1939.8	1939.1	1939.1	1938.4	1936.9
20°	1909.3	1909.3	1908.6	1907.8	1905.6
22.5°	1876.5	1875.8	1873.6	1873.6	1870.7
25°	1838.0	1835.8	1834.3	1833.6	1831.4
27.5°	1795.8	1792.9	1790.7	1789.2	1787.0
30°	1748.5	1745.6	1743.4	1741.2	1739.7
32.5°	1697.5	1696.1	1692.5	1691.7	1688.8
35°	1643.0	1640.8	1638.6	1635.7	1632.8
37.5°	1584.8	1582.6	1577.5	1576.0	1573.9
40°	1522.9	1520.0	1513.5	1513.5	1511.3
42.5°	1456.7	1453.8	1449.4	1446.5	1445.1
45°	1387.6	1384.7	1379.6	1376.7	1375.2
47.5°	1314.1	1311.9	1306.1	1303.9	1301.7
50°	1237.7	1234.8	1228.2	1226.8	1224.6
52.5°	1157.6	1156.2	1147.5	1146.7	1144.6
55°	1078.3	1070.3	1063.1	1063.1	1061.6
57.5°	991.0	985.2	975.7	975.7	974.3
60°	900.8	895.7	884.8	886.2	884.8
62.5°	812.8	801.8	791.7	796.0	792.4
65°	712.3	706.5	695.6	698.5	697.8
67.5°	620.7	609.7	599.6	605.4	602.5
70°	518.8	513.0	502.8	508.6	501.3
72.5°	422.7	417.7	407.5	414.0	406.7
75°	329.6	324.5	316.5	322.3	315.1
77.5°	241.6	237.9	230.7	236.5	237.9
80°	161.5	157.2	153.5	158.6	160.1
82.5°	94.6	91.7	90.2	91.0	94.6
85°	45.8	42.2	42.2	42.9	42.9
87.5°	12.4	10.9	12.4	13.1	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)