

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: P974415

Luminaire Tested: FLR2-24-65-L850-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974415
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-L850-CP187
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-65-L850-CP187
Ballast/Driver: -

Summary

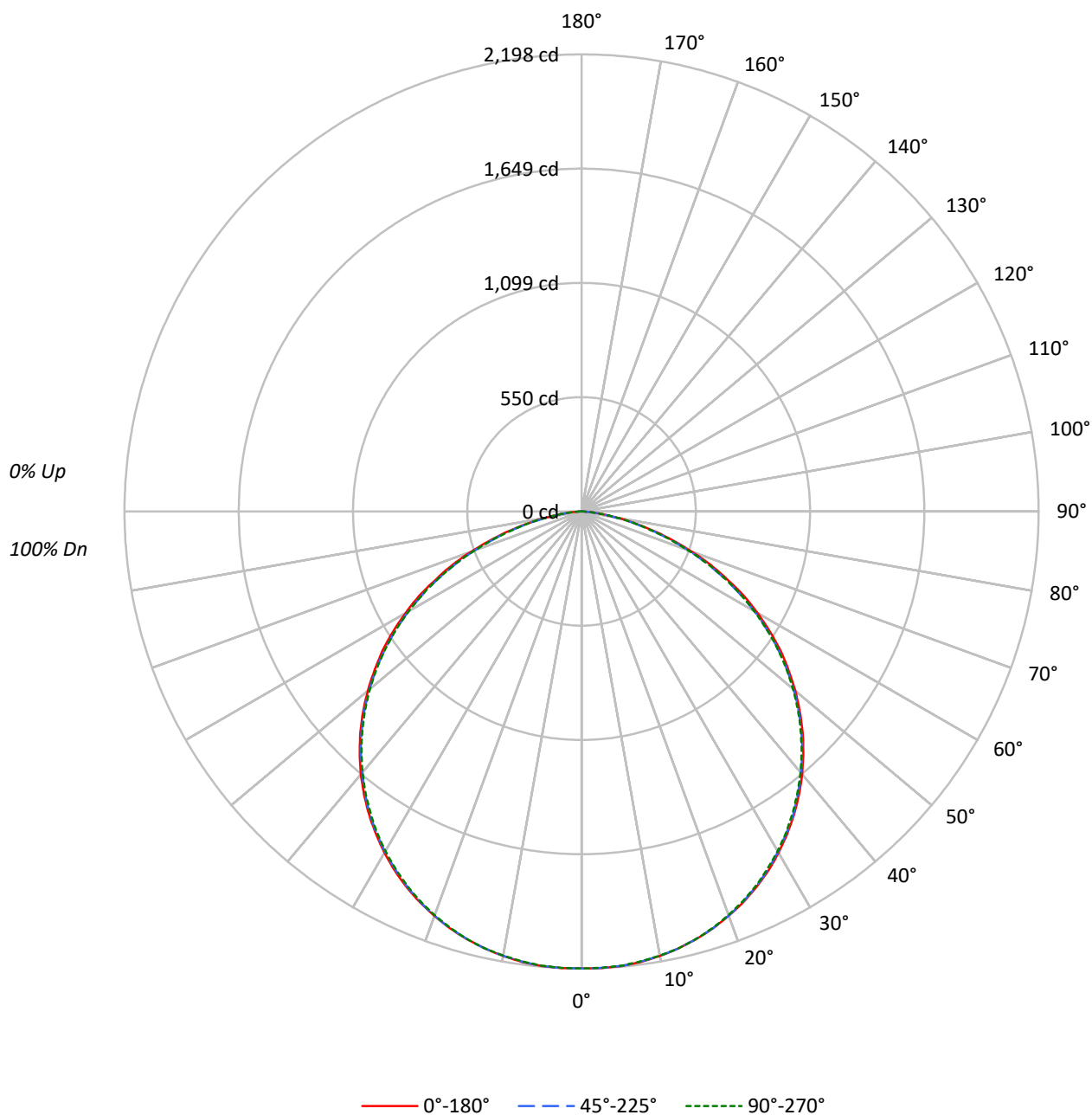
Lumens per Lamp: N/A
Luminaire Lumens: 6213.0 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2958	2958	2958
5°	2964	2964	2962
10°	2966	2965	2964
15°	2967	2965	2965
20°	2963	2962	2958
25°	2958	2952	2947
30°	2945	2936	2930
35°	2925	2918	2907
40°	2900	2882	2878
45°	2862	2846	2837
50°	2808	2787	2779
55°	2742	2703	2700
60°	2628	2581	2581
65°	2458	2401	2408
70°	2212	2144	2138
75°	1857	1784	1775
80°	1357	1289	1344
85°	767	706	718

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2862 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.7	3.4
10°-20°	601.1	9.7
20°-30°	916.5	14.8
30°-40°	1110.4	17.9
40°-50°	1153.4	18.6
50°-60°	1031.8	16.6
60°-70°	752.0	12.1
70°-80°	372.4	6.0
80°-90°	66.6	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°	1726.3	27.8
0°-40°	2836.7	45.7
0°-60°	5022.0	80.8
0°-90°	6213.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6213.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2198	2198	2198	2198	2198	
5°	2194	2195	2194	2194	2193	209
15°	2130	2129	2129	2130	2129	601
25°	1992	1990	1988	1988	1985	918
35°	1781	1779	1776	1773	1770	1114
45°	1504	1501	1496	1492	1491	1159
55°	1169	1160	1152	1152	1151	1041
65°	772	766	754	757	756	766
75°	357	352	343	349	342	381
85°	50	46	46	46	46	69
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2198.3	2198.3	2198.3	2198.3	2198.3
2.5°	2198.3	2197.5	2197.5	2198.3	2196.7
5°	2194.3	2195.1	2194.3	2194.3	2192.8
7.5°	2185.7	2184.9	2184.1	2184.9	2182.5
10°	2170.7	2170.7	2169.9	2170.7	2169.1
12.5°	2152.5	2152.5	2152.5	2153.3	2152.5
15°	2129.7	2128.9	2128.9	2130.4	2128.9
17.5°	2102.8	2102.1	2102.1	2101.3	2099.7
20°	2069.7	2069.7	2068.9	2068.1	2065.8
22.5°	2034.2	2033.4	2031.1	2031.1	2027.9
25°	1992.4	1990.0	1988.5	1987.7	1985.3
27.5°	1946.7	1943.5	1941.1	1939.6	1937.2
30°	1895.4	1892.2	1889.9	1887.5	1885.9
32.5°	1840.2	1838.6	1834.7	1833.9	1830.7
35°	1781.0	1778.7	1776.3	1773.1	1770.0
37.5°	1717.9	1715.6	1710.0	1708.5	1706.1
40°	1650.9	1647.7	1640.6	1640.6	1638.3
42.5°	1579.1	1575.9	1571.2	1568.1	1566.5
45°	1504.2	1501.0	1495.5	1492.3	1490.8
47.5°	1424.5	1422.1	1415.8	1413.5	1411.1
50°	1341.7	1338.5	1331.4	1329.9	1327.5
52.5°	1254.9	1253.3	1243.9	1243.1	1240.7
55°	1168.9	1160.3	1152.4	1152.4	1150.8
57.5°	1074.3	1068.0	1057.7	1057.7	1056.2
60°	976.5	971.0	959.1	960.7	959.1
62.5°	881.0	869.2	858.2	862.9	859.0
65°	772.2	765.9	754.1	757.2	756.4
67.5°	672.8	661.0	649.9	656.3	653.1
70°	562.4	556.1	545.0	551.3	543.5
72.5°	458.3	452.7	441.7	448.8	440.9
75°	357.3	351.8	343.1	349.4	341.5
77.5°	261.9	257.9	250.0	256.3	257.9
80°	175.1	170.4	166.4	172.0	173.5
82.5°	102.5	99.4	97.8	98.6	102.5
85°	49.7	45.7	45.7	46.5	46.5
87.5°	13.4	11.8	13.4	14.2	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)