

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: P974079

Luminaire Tested: FLR2-24-65-L830-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974079
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-L830-CP187
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-65-L830-CP187
Ballast/Driver: -

Summary

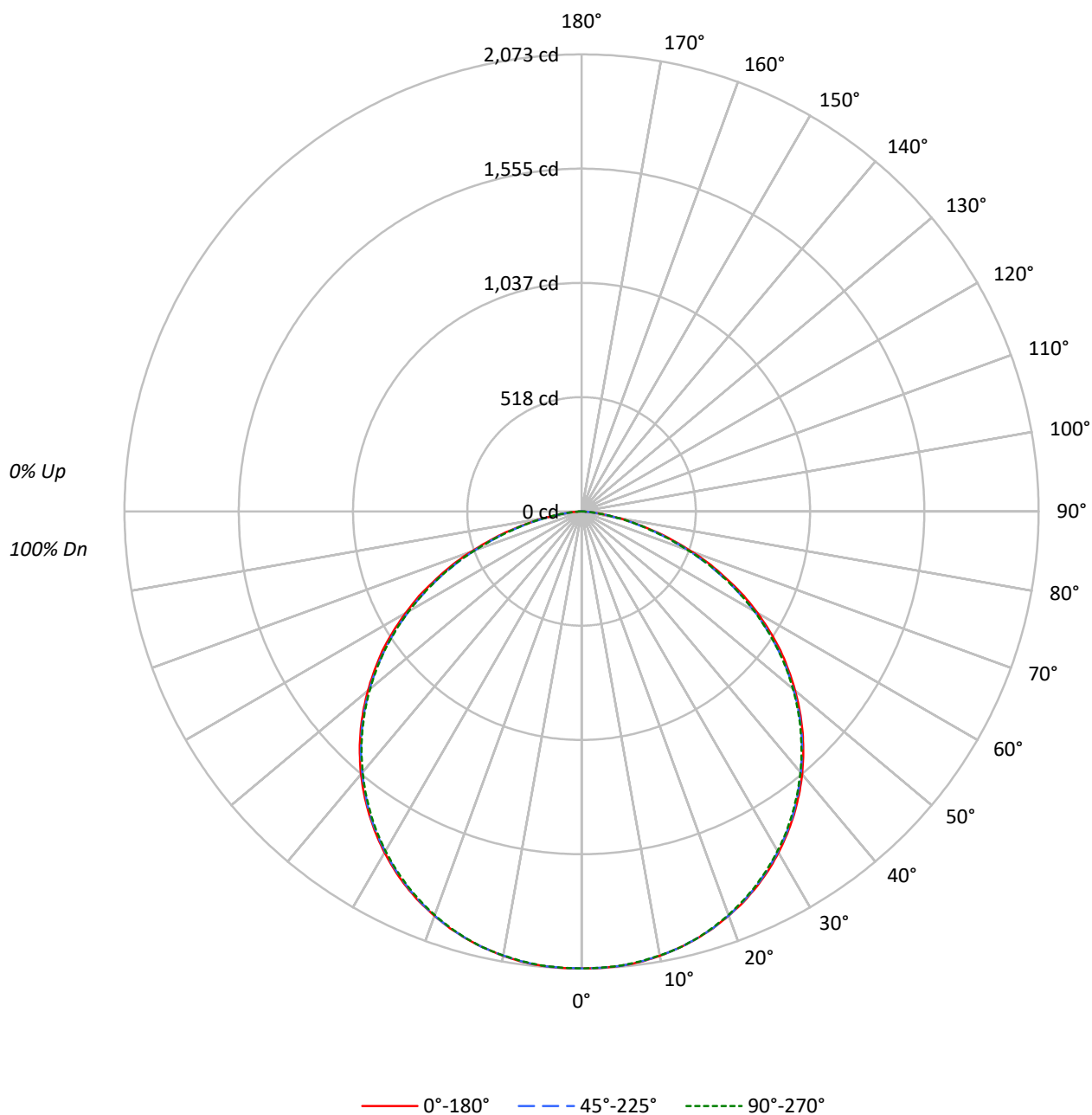
Lumens per Lamp: N/A
Luminaire Lumens: 5858.0 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	2789	2789	2789
5°	2794	2794	2792
10°	2796	2795	2794
15°	2797	2796	2796
20°	2794	2793	2789
25°	2789	2783	2779
30°	2777	2768	2763
35°	2758	2751	2741
40°	2734	2717	2713
45°	2699	2683	2675
50°	2648	2628	2620
55°	2585	2549	2545
60°	2478	2433	2433
65°	2318	2264	2271
70°	2086	2022	2016
75°	1751	1682	1674
80°	1279	1216	1268
85°	724	665	678

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2699 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.7	3.4
10°-20°	566.8	9.7
20°-30°	864.1	14.8
30°-40°	1047.0	17.9
40°-50°	1087.5	18.6
50°-60°	972.9	16.6
60°-70°	709.0	12.1
70°-80°	351.2	6.0
80°-90°	62.8	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°	1627.6	27.8
0°-40°	2674.6	45.7
0°-60°	4735.0	80.8
0°-90°	5858.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5858.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2073	2073	2073	2073	2073	
5°	2069	2070	2069	2069	2068	197
15°	2008	2007	2007	2009	2007	567
25°	1879	1876	1875	1874	1872	866
35°	1679	1677	1675	1672	1669	1050
45°	1418	1415	1410	1407	1406	1093
55°	1102	1094	1086	1086	1085	982
65°	728	722	711	714	713	722
75°	337	332	324	330	322	359
85°	47	43	43	44	44	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2072.7	2072.7	2072.7	2072.7	2072.7
2.5°	2072.7	2071.9	2071.9	2072.7	2071.2
5°	2068.9	2069.7	2068.9	2068.9	2067.5
7.5°	2060.8	2060.0	2059.3	2060.0	2057.8
10°	2046.6	2046.6	2045.9	2046.6	2045.1
12.5°	2029.5	2029.5	2029.5	2030.3	2029.5
15°	2008.0	2007.2	2007.2	2008.7	2007.2
17.5°	1982.7	1981.9	1981.9	1981.2	1979.7
20°	1951.4	1951.4	1950.7	1950.0	1947.7
22.5°	1918.0	1917.2	1915.0	1915.0	1912.0
25°	1878.6	1876.3	1874.8	1874.1	1871.9
27.5°	1835.4	1832.5	1830.2	1828.7	1826.5
30°	1787.1	1784.1	1781.9	1779.7	1778.2
32.5°	1735.0	1733.5	1729.8	1729.1	1726.1
35°	1679.3	1677.0	1674.8	1671.8	1668.8
37.5°	1619.8	1617.5	1612.3	1610.8	1608.6
40°	1556.5	1553.6	1546.9	1546.9	1544.6
42.5°	1488.9	1485.9	1481.4	1478.5	1477.0
45°	1418.2	1415.2	1410.0	1407.1	1405.6
47.5°	1343.1	1340.9	1334.9	1332.7	1330.5
50°	1265.0	1262.0	1255.4	1253.9	1251.6
52.5°	1183.2	1181.7	1172.8	1172.1	1169.8
55°	1102.1	1094.0	1086.5	1086.5	1085.0
57.5°	1012.9	1007.0	997.3	997.3	995.8
60°	920.7	915.5	904.3	905.8	904.3
62.5°	830.7	819.5	809.1	813.6	809.9
65°	728.1	722.1	711.0	713.9	713.2
67.5°	634.4	623.2	612.8	618.8	615.8
70°	530.3	524.3	513.9	519.8	512.4
72.5°	432.1	426.9	416.5	423.2	415.7
75°	336.9	331.7	323.5	329.5	322.0
77.5°	246.9	243.2	235.8	241.7	243.2
80°	165.1	160.6	156.9	162.1	163.6
82.5°	96.7	93.7	92.2	93.0	96.7
85°	46.9	43.1	43.1	43.9	43.9
87.5°	12.6	11.2	12.6	13.4	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)