

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: P974665

Luminaire Tested: FLR2-24-65HE-L835-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974665
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: FLR2-24-65HE-L835-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

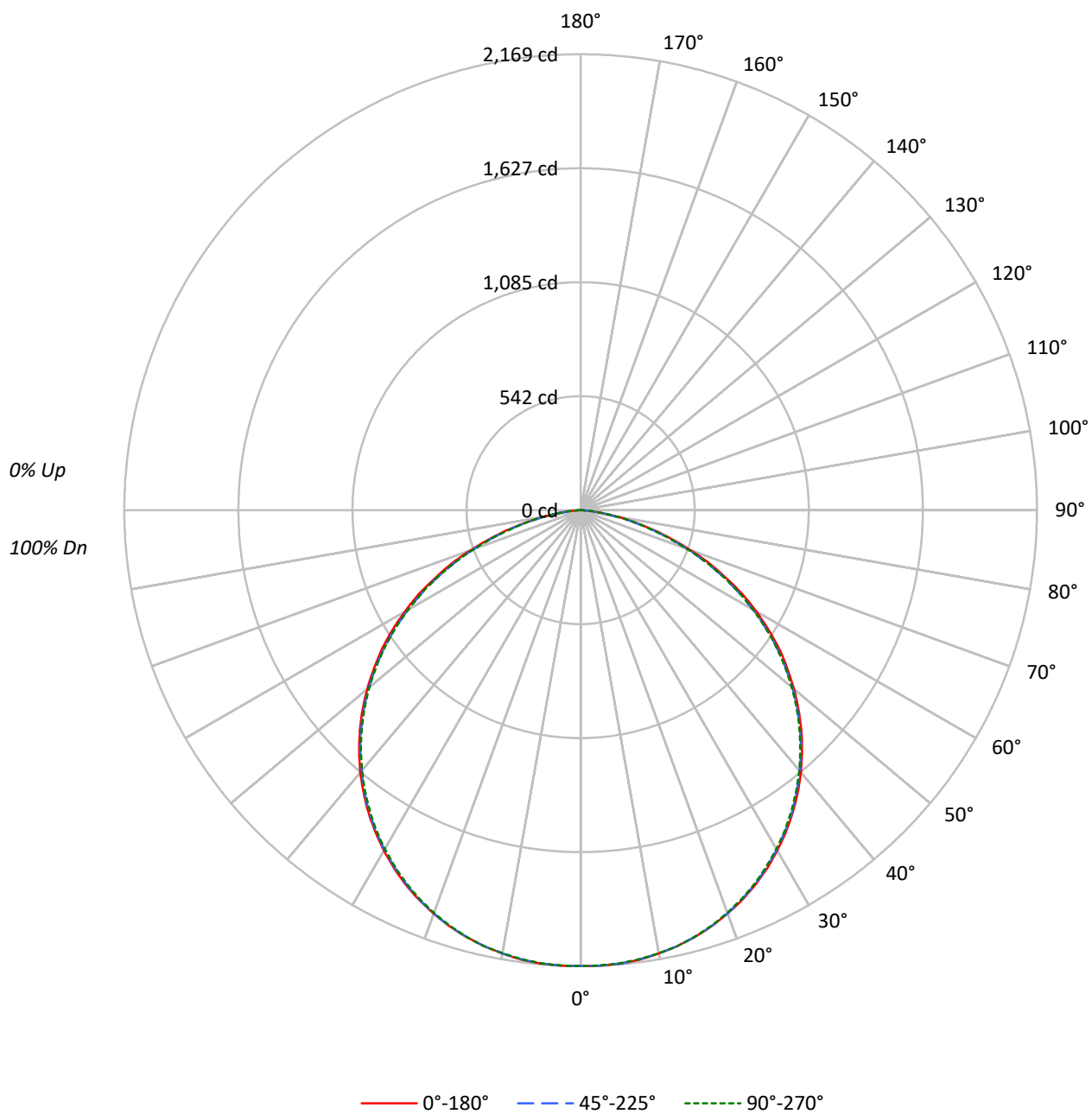
Lumens per Lamp: N/A
Luminaire Lumens: 6130.5 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 49.9
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°	2919	2919	2919
5°	2924	2924	2922
10°	2926	2925	2924
15°	2927	2926	2926
20°	2924	2923	2919
25°	2919	2913	2908
30°	2906	2897	2891
35°	2887	2879	2869
40°	2861	2843	2839
45°	2824	2808	2799
50°	2771	2750	2742
55°	2706	2667	2664
60°	2593	2547	2547
65°	2426	2369	2376
70°	2183	2116	2109
75°	1833	1760	1752
80°	1339	1272	1327
85°	756	696	709

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2824 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.9	3.4
10°-20°	593.1	9.7
20°-30°	904.3	14.8
30°-40°	1095.7	17.9
40°-50°	1138.1	18.6
50°-60°	1018.1	16.6
60°-70°	742.0	12.1
70°-80°	367.5	6.0
80°-90°	65.7	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°	1703.4	27.8
0°-40°	2799.0	45.7
0°-60°	4955.3	80.8
0°-90°	6130.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6130.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2169	2169	2169	2169	2169	
5°	2165	2166	2165	2165	2164	206
15°	2101	2101	2101	2102	2101	593
25°	1966	1964	1962	1961	1959	906
35°	1757	1755	1753	1750	1746	1099
45°	1484	1481	1476	1472	1471	1144
55°	1153	1145	1137	1137	1136	1028
65°	762	756	744	747	746	755
75°	353	347	339	345	337	376
85°	49	45	45	46	46	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2169.1	2169.1	2169.1	2169.1	2169.1
2.5°	2169.1	2168.3	2168.3	2169.1	2167.5
5°	2165.2	2166.0	2165.2	2165.2	2163.6
7.5°	2156.6	2155.9	2155.1	2155.9	2153.5
10°	2141.8	2141.8	2141.1	2141.8	2140.3
12.5°	2123.9	2123.9	2123.9	2124.7	2123.9
15°	2101.4	2100.6	2100.6	2102.2	2100.6
17.5°	2074.9	2074.1	2074.1	2073.4	2071.8
20°	2042.2	2042.2	2041.5	2040.7	2038.3
22.5°	2007.2	2006.4	2004.1	2004.1	2001.0
25°	1966.0	1963.6	1962.1	1961.3	1959.0
27.5°	1920.8	1917.7	1915.4	1913.8	1911.5
30°	1870.2	1867.1	1864.8	1862.4	1860.9
32.5°	1815.7	1814.2	1810.3	1809.5	1806.4
35°	1757.4	1755.0	1752.7	1749.6	1746.5
37.5°	1695.1	1692.8	1687.3	1685.8	1683.4
40°	1629.0	1625.8	1618.8	1618.8	1616.5
42.5°	1558.1	1555.0	1550.4	1547.2	1545.7
45°	1484.2	1481.1	1475.6	1472.5	1471.0
47.5°	1405.6	1403.3	1397.0	1394.7	1392.4
50°	1323.9	1320.8	1313.8	1312.2	1309.9
52.5°	1238.3	1236.7	1227.4	1226.6	1224.2
55°	1153.4	1144.9	1137.1	1137.1	1135.5
57.5°	1060.0	1053.8	1043.7	1043.7	1042.1
60°	963.5	958.1	946.4	948.0	946.4
62.5°	869.3	857.7	846.8	851.4	847.6
65°	761.9	755.7	744.0	747.2	746.4
67.5°	663.9	652.2	641.3	647.5	644.4
70°	554.9	548.7	537.8	544.0	536.2
72.5°	452.2	446.7	435.8	442.8	435.1
75°	352.6	347.1	338.6	344.8	337.0
77.5°	258.4	254.5	246.7	252.9	254.5
80°	172.8	168.1	164.2	169.7	171.2
82.5°	101.2	98.1	96.5	97.3	101.2
85°	49.0	45.1	45.1	45.9	45.9
87.5°	13.2	11.7	13.2	14.0	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)