

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: P974731

Luminaire Tested: FLR2-24-65HE-L835-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974731
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-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

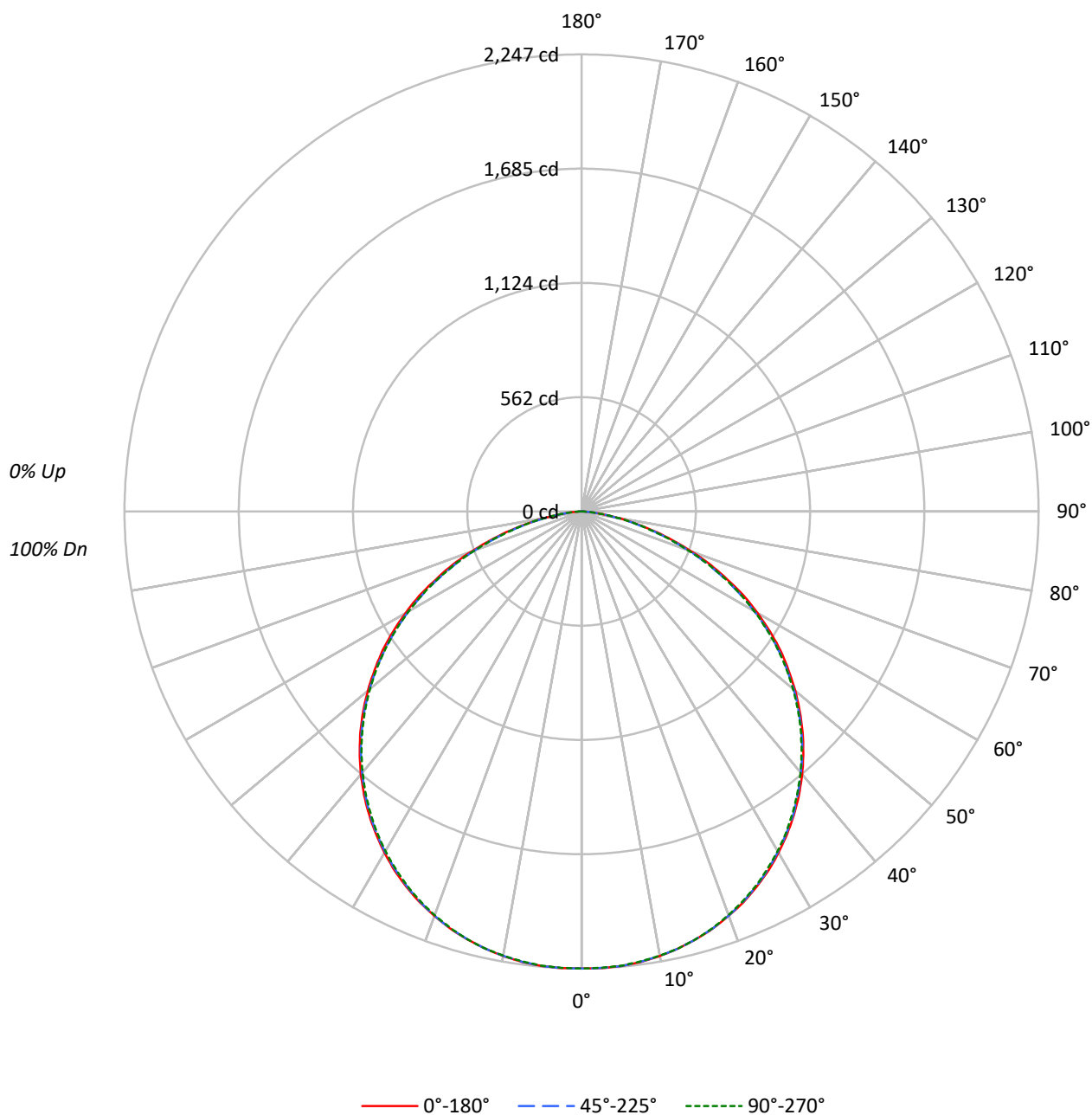
Lumens per Lamp: N/A
Luminaire Lumens: 6351.8 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3024	3024	3024
5°	3030	3030	3028
10°	3032	3031	3030
15°	3033	3032	3032
20°	3030	3028	3024
25°	3024	3018	3013
30°	3010	3002	2996
35°	2991	2983	2972
40°	2964	2946	2942
45°	2926	2909	2900
50°	2871	2849	2841
55°	2803	2764	2760
60°	2686	2639	2639
65°	2513	2454	2462
70°	2262	2192	2186
75°	1899	1824	1815
80°	1387	1318	1375
85°	784	722	735

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2926 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.3	3.4
10°-20°	614.5	9.7
20°-30°	937.0	14.8
30°-40°	1135.2	17.9
40°-50°	1179.2	18.6
50°-60°	1054.9	16.6
60°-70°	768.8	12.1
70°-80°	380.7	6.0
80°-90°	68.1	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°	1764.9	27.8
0°-40°	2900.1	45.7
0°-60°	5134.2	80.8
0°-90°	6351.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6351.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2247	2247	2247	2247	2247	
5°	2243	2244	2243	2243	2242	213
15°	2177	2176	2176	2178	2176	615
25°	2037	2034	2033	2032	2030	939
35°	1821	1818	1816	1813	1810	1139
45°	1538	1534	1529	1526	1524	1185
55°	1195	1186	1178	1178	1176	1065
65°	789	783	771	774	773	783
75°	365	360	351	357	349	389
85°	51	47	47	48	48	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2247.4	2247.4	2247.4	2247.4	2247.4
2.5°	2247.4	2246.6	2246.6	2247.4	2245.8
5°	2243.4	2244.2	2243.4	2243.4	2241.7
7.5°	2234.5	2233.7	2232.9	2233.7	2231.3
10°	2219.2	2219.2	2218.4	2219.2	2217.6
12.5°	2200.6	2200.6	2200.6	2201.4	2200.6
15°	2177.2	2176.4	2176.4	2178.0	2176.4
17.5°	2149.8	2149.0	2149.0	2148.2	2146.6
20°	2115.9	2115.9	2115.1	2114.3	2111.9
22.5°	2079.7	2078.9	2076.4	2076.4	2073.2
25°	2036.9	2034.5	2032.9	2032.1	2029.7
27.5°	1990.2	1986.9	1984.5	1982.9	1980.5
30°	1937.7	1934.5	1932.1	1929.7	1928.1
32.5°	1881.3	1879.7	1875.6	1874.8	1871.6
35°	1820.8	1818.4	1816.0	1812.7	1809.5
37.5°	1756.3	1753.9	1748.2	1746.6	1744.2
40°	1687.8	1684.5	1677.3	1677.3	1674.9
42.5°	1614.4	1611.2	1606.3	1603.1	1601.5
45°	1537.8	1534.5	1528.9	1525.7	1524.1
47.5°	1456.3	1453.9	1447.5	1445.0	1442.6
50°	1371.7	1368.4	1361.2	1359.6	1357.1
52.5°	1283.0	1281.3	1271.7	1270.9	1268.4
55°	1195.1	1186.2	1178.1	1178.1	1176.5
57.5°	1098.3	1091.8	1081.4	1081.4	1079.7
60°	998.3	992.7	980.6	982.2	980.6
62.5°	900.7	888.6	877.3	882.2	878.2
65°	789.4	783.0	770.9	774.1	773.3
67.5°	687.8	675.7	664.5	670.9	667.7
70°	575.0	568.5	557.2	563.7	555.6
72.5°	468.5	462.9	451.6	458.8	450.8
75°	365.3	359.6	350.8	357.2	349.2
77.5°	267.7	263.7	255.6	262.1	263.7
80°	179.0	174.2	170.1	175.8	177.4
82.5°	104.8	101.6	100.0	100.8	104.8
85°	50.8	46.8	46.8	47.6	47.6
87.5°	13.7	12.1	13.7	14.5	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)