

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: P974732

Luminaire Tested: FLR2-24-72HE-L835-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974732
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: FLR2-24-72HE-L835-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

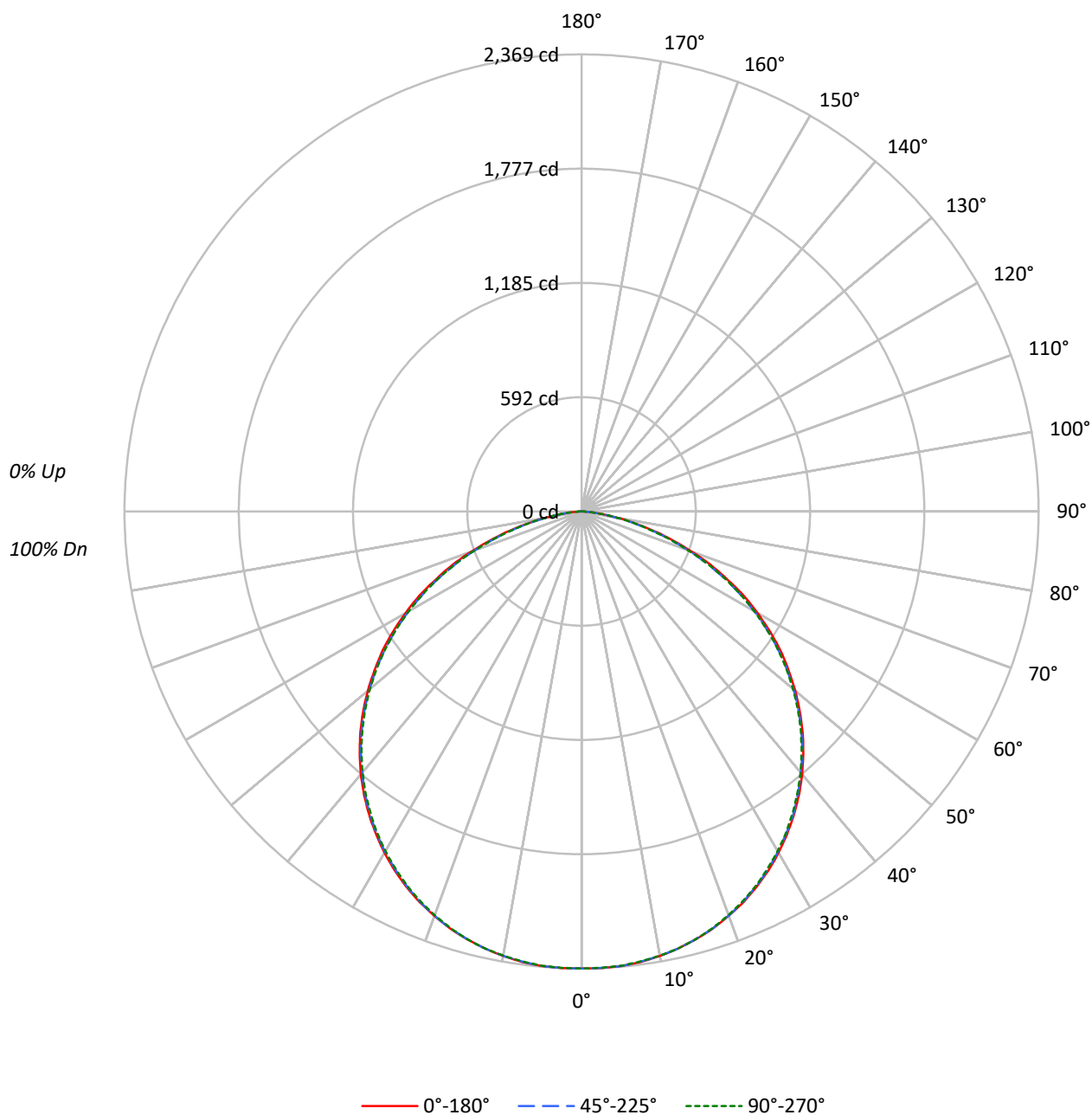
Lumens per Lamp: N/A
Luminaire Lumens: 6696.4 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 53.6
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°	3188	3188	3188
5°	3194	3194	3192
10°	3196	3195	3194
15°	3197	3196	3196
20°	3194	3193	3188
25°	3188	3182	3177
30°	3174	3165	3158
35°	3153	3145	3133
40°	3125	3106	3101
45°	3085	3067	3057
50°	3027	3004	2995
55°	2955	2913	2909
60°	2832	2782	2782
65°	2650	2587	2596
70°	2384	2311	2304
75°	2002	1922	1914
80°	1462	1390	1449
85°	827	761	775

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3085 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.9	3.4
10°-20°	647.9	9.7
20°-30°	987.8	14.8
30°-40°	1196.8	17.9
40°-50°	1243.2	18.6
50°-60°	1112.1	16.6
60°-70°	810.5	12.1
70°-80°	401.4	6.0
80°-90°	71.8	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°	1860.6	27.8
0°-40°	3057.4	45.7
0°-60°	5412.8	80.8
0°-90°	6696.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6696.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2369	2369	2369	2369	2369	
5°	2365	2366	2365	2365	2363	225
15°	2295	2294	2294	2296	2294	648
25°	2147	2145	2143	2142	2140	990
35°	1920	1917	1914	1911	1908	1201
45°	1621	1618	1612	1608	1607	1249
55°	1260	1250	1242	1242	1240	1123
65°	832	826	813	816	815	825
75°	385	379	370	377	368	411
85°	54	49	49	50	50	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2369.3	2369.3	2369.3	2369.3	2369.3
2.5°	2369.3	2368.5	2368.5	2369.3	2367.6
5°	2365.1	2365.9	2365.1	2365.1	2363.4
7.5°	2355.7	2354.9	2354.0	2354.9	2352.3
10°	2339.6	2339.6	2338.7	2339.6	2337.9
12.5°	2320.0	2320.0	2320.0	2320.9	2320.0
15°	2295.4	2294.5	2294.5	2296.2	2294.5
17.5°	2266.5	2265.6	2265.6	2264.8	2263.1
20°	2230.8	2230.8	2229.9	2229.1	2226.5
22.5°	2192.5	2191.6	2189.1	2189.1	2185.7
25°	2147.4	2144.9	2143.2	2142.3	2139.8
27.5°	2098.1	2094.7	2092.2	2090.5	2087.9
30°	2042.9	2039.5	2036.9	2034.4	2032.7
32.5°	1983.4	1981.7	1977.4	1976.6	1973.2
35°	1919.6	1917.1	1914.5	1911.1	1907.7
37.5°	1851.6	1849.0	1843.1	1841.4	1838.8
40°	1779.3	1775.9	1768.3	1768.3	1765.7
42.5°	1702.0	1698.6	1693.5	1690.1	1688.4
45°	1621.2	1617.8	1611.9	1608.5	1606.8
47.5°	1535.3	1532.8	1526.0	1523.4	1520.9
50°	1446.1	1442.7	1435.0	1433.3	1430.8
52.5°	1352.6	1350.9	1340.7	1339.8	1337.3
55°	1259.9	1250.5	1242.0	1242.0	1240.3
57.5°	1157.9	1151.1	1140.0	1140.0	1138.3
60°	1052.5	1046.5	1033.8	1035.5	1033.8
62.5°	949.6	936.8	924.9	930.0	925.8
65°	832.3	825.5	812.7	816.1	815.3
67.5°	725.2	712.4	700.5	707.3	703.9
70°	606.1	599.3	587.4	594.2	585.7
72.5°	493.9	488.0	476.1	483.7	475.2
75°	385.1	379.2	369.8	376.6	368.1
77.5°	282.2	278.0	269.5	276.3	278.0
80°	188.7	183.6	179.4	185.3	187.0
82.5°	110.5	107.1	105.4	106.3	110.5
85°	53.6	49.3	49.3	50.2	50.2
87.5°	14.5	12.8	14.5	15.3	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)