

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: P974678

Luminaire Tested: FLR2-24-80HE-L835-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974678
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: FLR2-24-80HE-L835-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

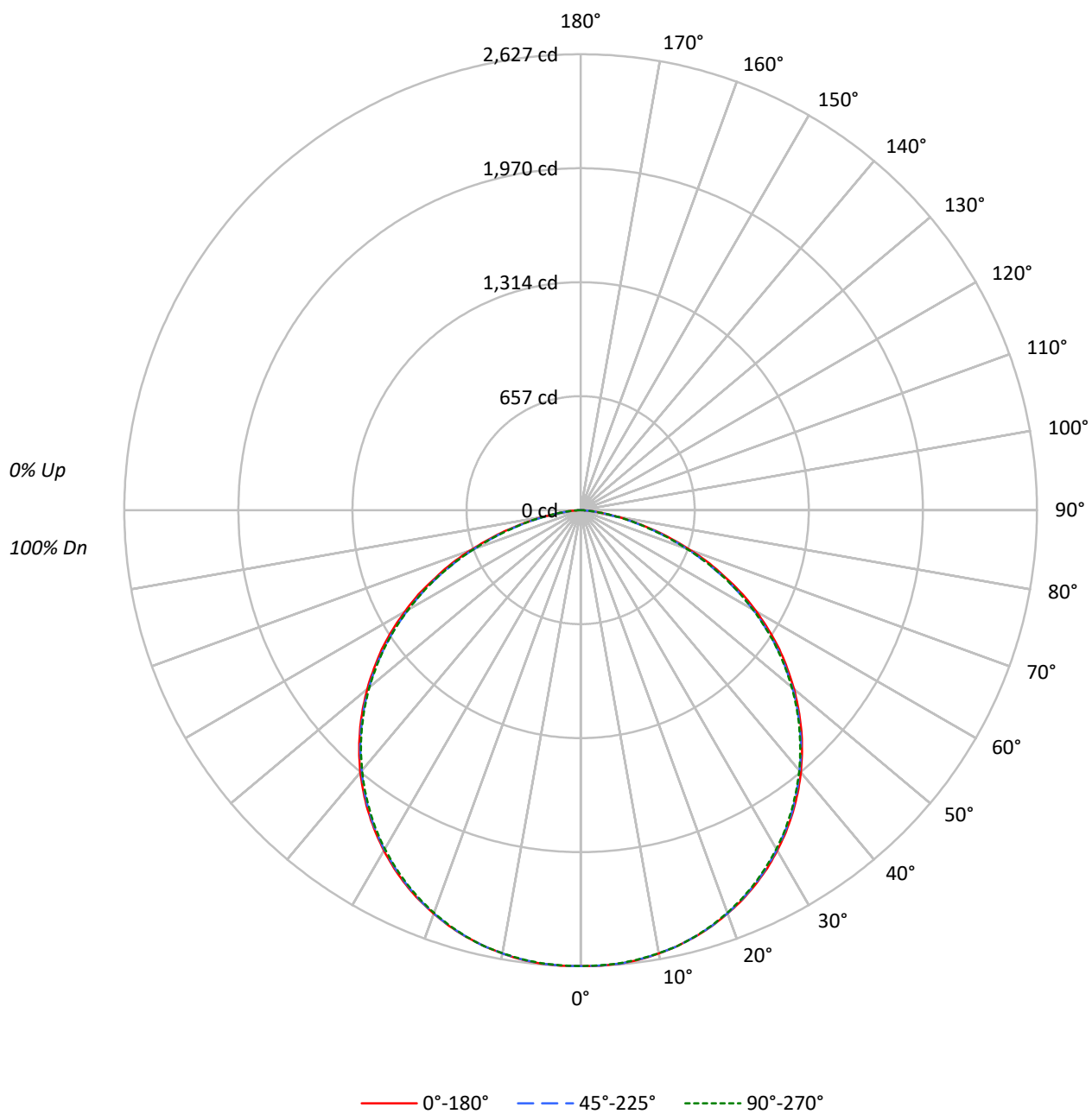
Lumens per Lamp: N/A
Luminaire Lumens: 7424.8 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 63.5
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°	3535	3535	3535
5°	3542	3542	3539
10°	3544	3543	3542
15°	3545	3544	3544
20°	3542	3540	3535
25°	3535	3528	3522
30°	3519	3509	3502
35°	3496	3487	3474
40°	3465	3444	3439
45°	3420	3401	3390
50°	3356	3331	3321
55°	3277	3230	3226
60°	3140	3084	3084
65°	2938	2869	2878
70°	2644	2562	2555
75°	2220	2131	2122
80°	1622	1541	1607
85°	917	844	858

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3420 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.4	3.4
10°-20°	718.4	9.7
20°-30°	1095.3	14.8
30°-40°	1327.0	17.9
40°-50°	1378.4	18.6
50°-60°	1233.1	16.6
60°-70°	898.7	12.1
70°-80°	445.1	6.0
80°-90°	79.6	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°	2063.0	27.8
0°-40°	3390.0	45.7
0°-60°	6001.5	80.8
0°-90°	7424.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7424.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2627	2627	2627	2627	2627	
5°	2622	2623	2622	2622	2620	249
15°	2545	2544	2544	2546	2544	719
25°	2381	2378	2376	2375	2372	1097
35°	2128	2126	2123	2119	2115	1331
45°	1798	1794	1787	1783	1782	1385
55°	1397	1387	1377	1377	1375	1245
65°	923	915	901	905	904	915
75°	427	420	410	418	408	455
85°	59	55	55	56	56	82
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2627.0	2627.0	2627.0	2627.0	2627.0
2.5°	2627.0	2626.1	2626.1	2627.0	2625.1
5°	2622.3	2623.3	2622.3	2622.3	2620.4
7.5°	2611.9	2611.0	2610.1	2611.0	2608.2
10°	2594.0	2594.0	2593.1	2594.0	2592.2
12.5°	2572.4	2572.4	2572.4	2573.3	2572.4
15°	2545.0	2544.1	2544.1	2546.0	2544.1
17.5°	2513.0	2512.0	2512.0	2511.1	2509.2
20°	2473.4	2473.4	2472.4	2471.5	2468.7
22.5°	2431.0	2430.0	2427.2	2427.2	2423.4
25°	2381.0	2378.2	2376.3	2375.4	2372.5
27.5°	2326.3	2322.6	2319.7	2317.9	2315.0
30°	2265.1	2261.3	2258.5	2255.6	2253.8
32.5°	2199.1	2197.2	2192.5	2191.5	2187.8
35°	2128.4	2125.6	2122.7	2119.0	2115.2
37.5°	2053.0	2050.2	2043.6	2041.7	2038.8
40°	1972.9	1969.1	1960.6	1960.6	1957.8
42.5°	1887.1	1883.3	1877.7	1873.9	1872.0
45°	1797.5	1793.8	1787.2	1783.4	1781.5
47.5°	1702.3	1699.5	1692.0	1689.1	1686.3
50°	1603.4	1599.6	1591.1	1589.2	1586.4
52.5°	1499.7	1497.8	1486.5	1485.5	1482.7
55°	1396.9	1386.6	1377.1	1377.1	1375.3
57.5°	1283.8	1276.3	1264.0	1264.0	1262.1
60°	1166.9	1160.3	1146.2	1148.1	1146.2
62.5°	1052.9	1038.7	1025.6	1031.2	1026.5
65°	922.8	915.3	901.1	904.9	904.0
67.5°	804.0	789.9	776.7	784.2	780.5
70°	672.1	664.5	651.3	658.9	649.5
72.5°	547.7	541.1	527.9	536.3	526.9
75°	427.0	420.4	410.0	417.6	408.1
77.5°	312.9	308.2	298.8	306.3	308.2
80°	209.3	203.6	198.9	205.5	207.4
82.5°	122.5	118.8	116.9	117.8	122.5
85°	59.4	54.7	54.7	55.6	55.6
87.5°	16.0	14.1	16.0	17.0	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)