

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: P973846

Luminaire Tested: FLR2-22-60HE-L835-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-60HE-L835-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

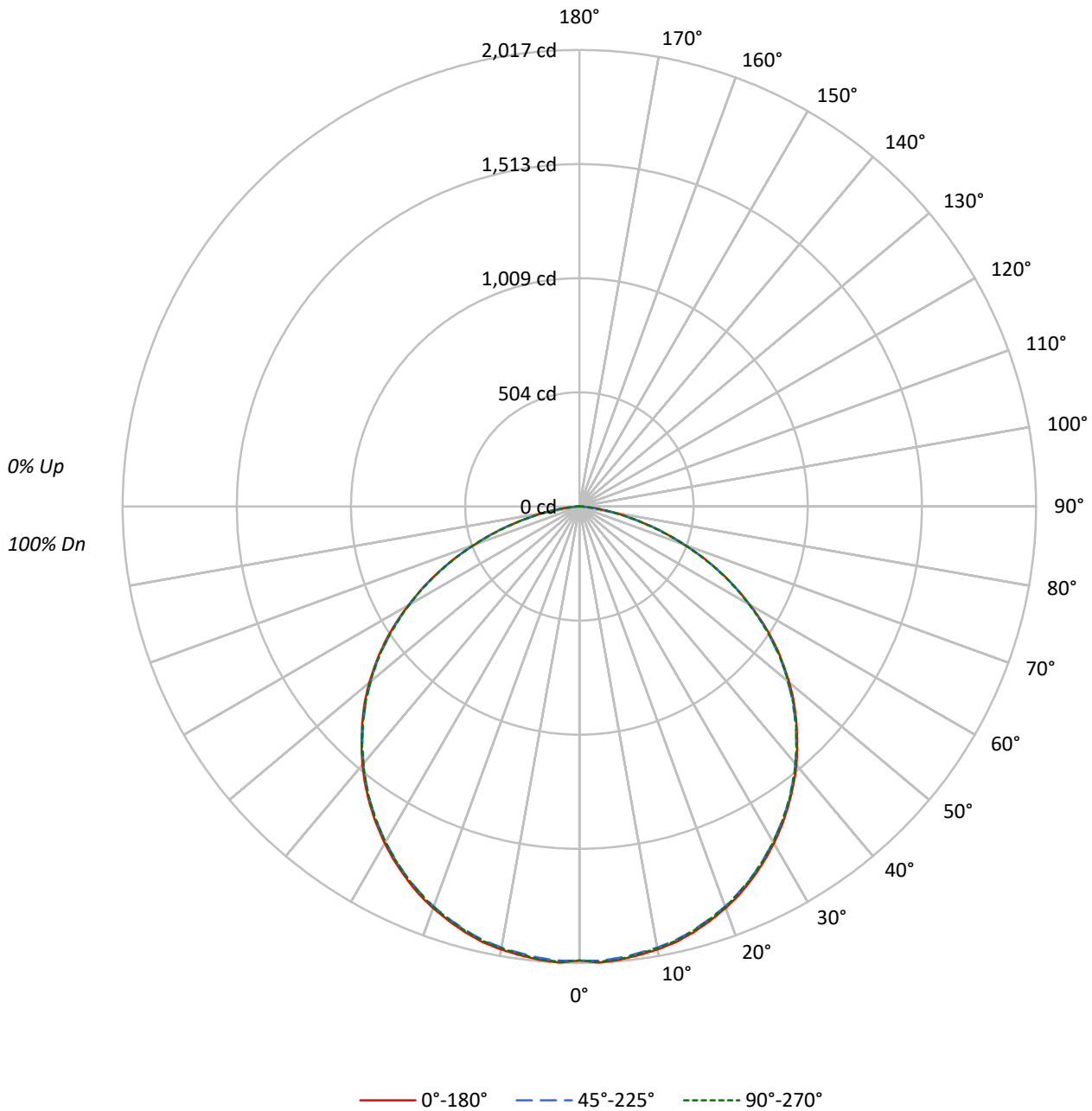
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5610.4 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 47.4
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	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	102	102	102	100			100																
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85			85																
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51			51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44			44																
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39			39																
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34			34																
8	61	47	39	33	59	47	39	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	40	34	29	27			27																
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25			25																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5399	5399	5399
5°	5433	5409	5426
10°	5431	5407	5418
15°	5427	5403	5410
20°	5408	5387	5394
25°	5379	5357	5361
30°	5340	5317	5321
35°	5292	5272	5276
40°	5237	5211	5215
45°	5159	5135	5145
50°	5068	5032	5043
55°	4924	4883	4901
60°	4682	4662	4662
65°	4371	4364	4348
70°	3870	3890	3880
75°	3260	3234	3209
80°	2343	2304	2286
85°	1226	1226	1186

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5159 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.0	3.4
10°-20°	546.3	9.7
20°-30°	830.2	14.8
30°-40°	1003.5	17.9
40°-50°	1041.5	18.6
50°-60°	931.2	16.6
60°-70°	677.0	12.1
70°-80°	332.9	5.9
80°-90°	57.7	1.0
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°	1566.5	27.9
0°-40°	2570.0	45.8
0°-60°	4542.7	81.0
0°-90°	5610.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5610.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2006	2006	2006	2006	2006	
5°	2011	1988	2002	1995	2009	191
15°	1948	1926	1939	1934	1942	550
25°	1812	1792	1804	1800	1806	835
35°	1611	1600	1605	1606	1606	1008
45°	1356	1349	1349	1352	1352	1046
55°	1050	1043	1041	1043	1045	936
65°	686	689	685	685	683	677
75°	314	316	311	312	309	333
85°	40	41	40	40	38	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2006.2	2006.2	2006.2	2006.2	2006.2
2.5°	2017.3	1993.8	2008.7	2000.0	2013.6
5°	2011.2	1987.6	2002.5	1995.0	2008.7
7.5°	2000.0	1976.5	1991.3	1983.9	1995.0
10°	1987.6	1962.8	1978.9	1971.5	1982.7
12.5°	1971.5	1948.0	1962.8	1956.6	1966.5
15°	1948.0	1925.6	1939.3	1934.3	1941.8
17.5°	1919.5	1897.1	1910.8	1907.1	1913.3
20°	1888.5	1867.4	1881.0	1877.3	1883.5
22.5°	1853.8	1831.5	1843.9	1841.4	1846.3
25°	1811.6	1791.8	1804.2	1800.5	1805.5
27.5°	1767.0	1748.5	1758.4	1758.4	1760.8
30°	1718.7	1701.4	1711.3	1711.3	1712.5
32.5°	1666.7	1653.0	1659.2	1660.5	1660.5
35°	1610.9	1599.8	1604.7	1605.9	1605.9
37.5°	1552.7	1541.5	1545.2	1547.7	1547.7
40°	1490.7	1480.8	1483.3	1485.7	1484.5
42.5°	1423.8	1416.4	1417.6	1420.1	1420.1
45°	1355.6	1349.4	1349.4	1351.9	1351.9
47.5°	1286.2	1280.0	1277.6	1280.0	1280.0
50°	1210.7	1204.5	1202.0	1204.5	1204.5
52.5°	1131.4	1125.2	1125.2	1125.2	1126.4
55°	1049.6	1043.4	1040.9	1043.4	1044.6
57.5°	962.8	960.3	956.6	957.9	954.2
60°	869.9	869.9	866.2	868.6	866.2
62.5°	779.4	781.9	778.2	778.2	775.7
65°	686.5	689.0	685.3	685.3	682.8
67.5°	591.1	594.8	589.8	589.8	587.4
70°	491.9	499.4	494.4	495.7	493.2
72.5°	402.7	406.4	401.5	401.5	399.0
75°	313.5	316.0	311.0	312.3	308.6
77.5°	225.5	229.2	224.3	225.5	224.3
80°	151.2	152.4	148.7	149.9	147.5
82.5°	88.0	89.2	88.0	86.7	85.5
85°	39.7	40.9	39.7	39.7	38.4
87.5°	9.9	9.9	9.9	9.9	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)