

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: P974708

Luminaire Tested: FLR2-24-55HE-L835-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974708
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: FLR2-24-55HE-L835-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

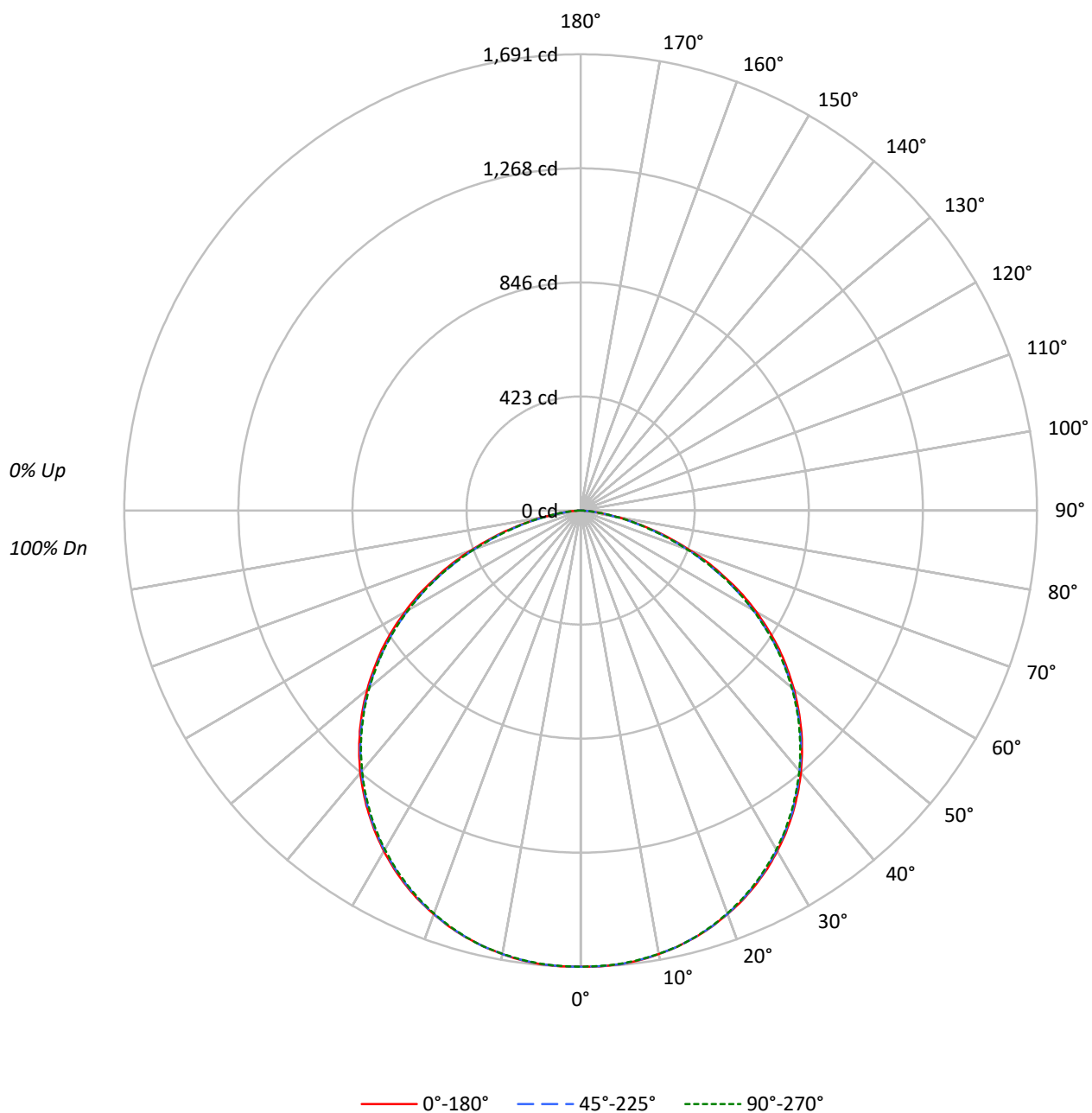
Lumens per Lamp: N/A
Luminaire Lumens: 4779.3 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.3
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°	2275	2275	2275
5°	2280	2280	2278
10°	2281	2281	2280
15°	2282	2281	2281
20°	2280	2279	2275
25°	2275	2271	2267
30°	2265	2259	2254
35°	2250	2244	2236
40°	2230	2217	2213
45°	2202	2189	2182
50°	2160	2144	2138
55°	2109	2080	2076
60°	2021	1985	1985
65°	1891	1847	1853
70°	1702	1650	1644
75°	1429	1372	1366
80°	1044	992	1034
85°	590	543	553

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2202 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.5	3.4
10°-20°	462.4	9.7
20°-30°	705.0	14.8
30°-40°	854.2	17.9
40°-50°	887.3	18.6
50°-60°	793.7	16.6
60°-70°	578.5	12.1
70°-80°	286.5	6.0
80°-90°	51.2	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°	1327.9	27.8
0°-40°	2182.1	45.7
0°-60°	3863.1	80.8
0°-90°	4779.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4779.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1691	1691	1691	1691	1691	
5°	1688	1689	1688	1688	1687	161
15°	1638	1638	1638	1639	1638	463
25°	1533	1531	1530	1529	1527	706
35°	1370	1368	1366	1364	1362	857
45°	1157	1155	1150	1148	1147	892
55°	899	892	886	886	885	801
65°	594	589	580	582	582	589
75°	275	271	264	269	263	293
85°	38	35	35	36	36	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1691.0	1691.0	1691.0	1691.0	1691.0
2.5°	1691.0	1690.4	1690.4	1691.0	1689.8
5°	1688.0	1688.6	1688.0	1688.0	1686.8
7.5°	1681.3	1680.7	1680.1	1680.7	1678.9
10°	1669.8	1669.8	1669.2	1669.8	1668.6
12.5°	1655.8	1655.8	1655.8	1656.4	1655.8
15°	1638.2	1637.6	1637.6	1638.8	1637.6
17.5°	1617.6	1617.0	1617.0	1616.4	1615.2
20°	1592.1	1592.1	1591.5	1590.9	1589.1
22.5°	1564.8	1564.2	1562.4	1562.4	1559.9
25°	1532.6	1530.8	1529.6	1529.0	1527.2
27.5°	1497.5	1495.0	1493.2	1492.0	1490.2
30°	1458.0	1455.6	1453.8	1451.9	1450.7
32.5°	1415.5	1414.3	1411.3	1410.7	1408.3
35°	1370.0	1368.2	1366.4	1364.0	1361.5
37.5°	1321.5	1319.7	1315.4	1314.2	1312.4
40°	1269.9	1267.5	1262.0	1262.0	1260.2
42.5°	1214.7	1212.3	1208.6	1206.2	1205.0
45°	1157.1	1154.6	1150.4	1148.0	1146.8
47.5°	1095.8	1094.0	1089.1	1087.3	1085.5
50°	1032.1	1029.7	1024.2	1023.0	1021.2
52.5°	965.3	964.1	956.8	956.2	954.4
55°	899.2	892.5	886.5	886.5	885.2
57.5°	826.4	821.5	813.6	813.6	812.4
60°	751.2	746.9	737.8	739.0	737.8
62.5°	677.7	668.6	660.1	663.8	660.7
65°	594.0	589.2	580.1	582.5	581.9
67.5°	517.6	508.5	500.0	504.8	502.4
70°	432.6	427.8	419.3	424.1	418.0
72.5°	352.5	348.3	339.8	345.2	339.2
75°	274.9	270.6	263.9	268.8	262.7
77.5°	201.4	198.4	192.3	197.2	198.4
80°	134.7	131.1	128.0	132.3	133.5
82.5°	78.9	76.5	75.2	75.8	78.9
85°	38.2	35.2	35.2	35.8	35.8
87.5°	10.3	9.1	10.3	10.9	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)