

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: P974576

Luminaire Tested: FLR2-24-55HE-L830-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974576
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-L830-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

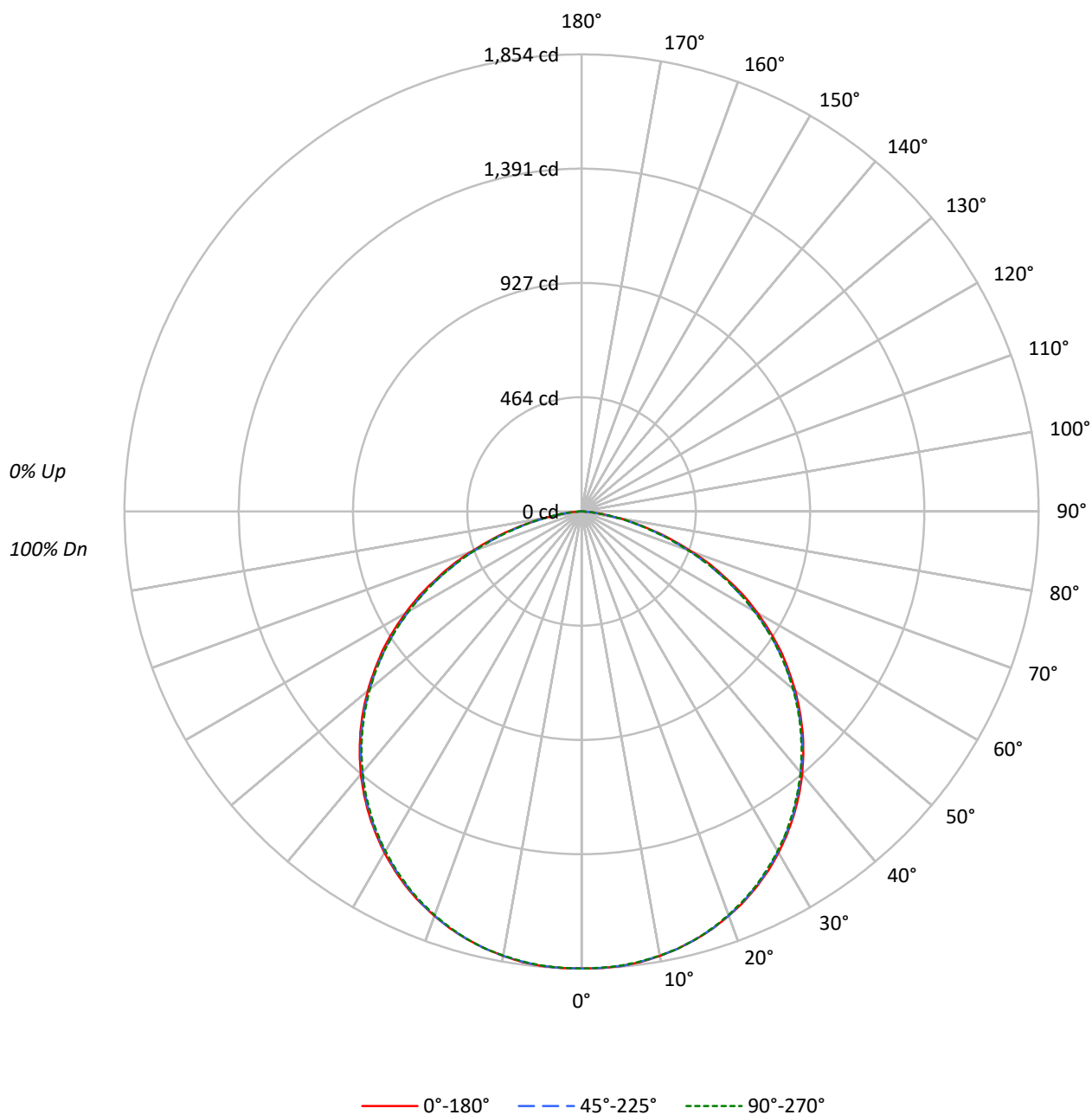
Lumens per Lamp: N/A
Luminaire Lumens: 5240.4 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	2495	2495	2495
5°	2500	2500	2498
10°	2501	2501	2500
15°	2502	2501	2501
20°	2500	2499	2495
25°	2495	2490	2486
30°	2484	2476	2471
35°	2467	2461	2452
40°	2446	2431	2427
45°	2414	2400	2393
50°	2369	2351	2344
55°	2313	2280	2277
60°	2216	2177	2177
65°	2074	2025	2031
70°	1866	1808	1803
75°	1567	1504	1498
80°	1144	1088	1134
85°	647	596	607

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2414 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.0	3.4
10°-20°	507.0	9.7
20°-30°	773.0	14.8
30°-40°	936.6	17.9
40°-50°	972.9	18.6
50°-60°	870.3	16.6
60°-70°	634.3	12.1
70°-80°	314.1	6.0
80°-90°	56.2	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°	1456.1	27.8
0°-40°	2392.6	45.7
0°-60°	4235.8	80.8
0°-90°	5240.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5240.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1854	1854	1854	1854	1854	
5°	1851	1852	1851	1851	1850	176
15°	1796	1796	1796	1797	1796	507
25°	1680	1678	1677	1676	1674	775
35°	1502	1500	1498	1496	1493	940
45°	1269	1266	1261	1259	1257	978
55°	986	979	972	972	971	878
65°	651	646	636	639	638	646
75°	301	297	289	295	288	321
85°	42	39	39	39	39	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1854.2	1854.2	1854.2	1854.2	1854.2
2.5°	1854.2	1853.5	1853.5	1854.2	1852.8
5°	1850.8	1851.5	1850.8	1850.8	1849.5
7.5°	1843.5	1842.8	1842.2	1842.8	1840.8
10°	1830.9	1830.9	1830.2	1830.9	1829.5
12.5°	1815.6	1815.6	1815.6	1816.2	1815.6
15°	1796.3	1795.6	1795.6	1796.9	1795.6
17.5°	1773.7	1773.0	1773.0	1772.3	1771.0
20°	1745.7	1745.7	1745.0	1744.4	1742.4
22.5°	1715.8	1715.1	1713.1	1713.1	1710.5
25°	1680.5	1678.5	1677.2	1676.5	1674.5
27.5°	1641.9	1639.3	1637.3	1635.9	1633.9
30°	1598.7	1596.0	1594.0	1592.0	1590.7
32.5°	1552.1	1550.8	1547.5	1546.8	1544.1
35°	1502.2	1500.2	1498.2	1495.6	1492.9
37.5°	1449.0	1447.0	1442.3	1441.0	1439.0
40°	1392.4	1389.8	1383.8	1383.8	1381.8
42.5°	1331.9	1329.2	1325.3	1322.6	1321.3
45°	1268.7	1266.0	1261.4	1258.7	1257.4
47.5°	1201.5	1199.5	1194.2	1192.2	1190.2
50°	1131.7	1129.0	1123.0	1121.7	1119.7
52.5°	1058.5	1057.1	1049.2	1048.5	1046.5
55°	986.0	978.6	972.0	972.0	970.7
57.5°	906.1	900.8	892.1	892.1	890.8
60°	823.6	819.0	809.0	810.3	809.0
62.5°	743.1	733.1	723.8	727.8	724.5
65°	651.3	646.0	636.0	638.7	638.0
67.5°	567.5	557.5	548.2	553.5	550.9
70°	474.3	469.0	459.7	465.0	458.4
72.5°	386.5	381.9	372.6	378.5	371.9
75°	301.4	296.7	289.4	294.7	288.1
77.5°	220.9	217.5	210.9	216.2	217.5
80°	147.7	143.7	140.4	145.0	146.4
82.5°	86.5	83.8	82.5	83.2	86.5
85°	41.9	38.6	38.6	39.3	39.3
87.5°	11.3	10.0	11.3	12.0	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)