

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: P974510

Luminaire Tested: FLR2-24-55HE-L830-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974510
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-CP080
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 1
Light Source:
Ballast/Driver: -

Summary

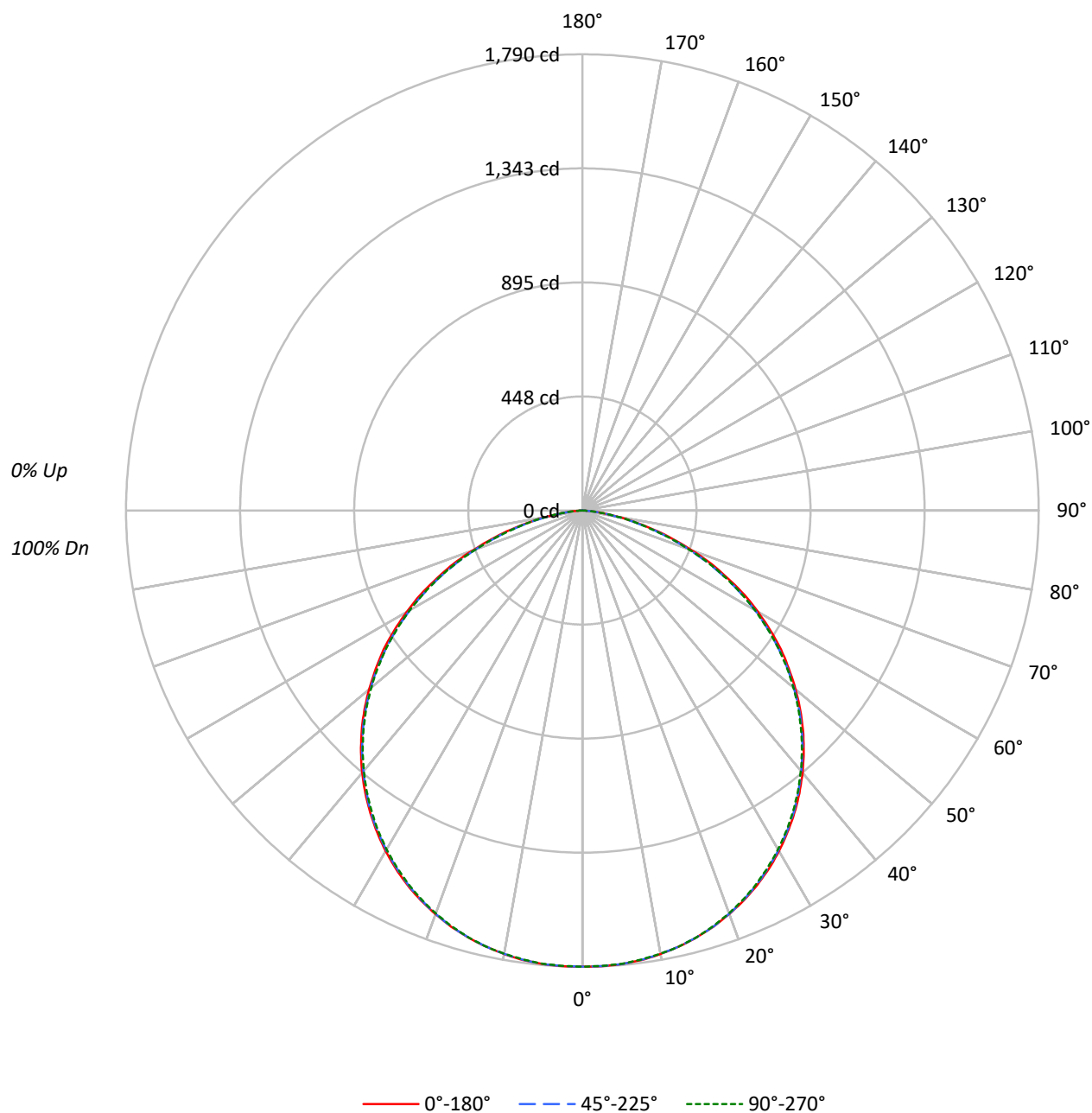
Lumens per Lamp: N/A
Luminaire Lumens: 5057.8 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2408	2408	2408
5°	2413	2413	2411
10°	2414	2413	2413
15°	2415	2414	2414
20°	2413	2412	2408
25°	2408	2403	2399
30°	2397	2390	2385
35°	2382	2375	2367
40°	2360	2346	2343
45°	2330	2316	2309
50°	2286	2269	2262
55°	2232	2201	2198
60°	2139	2101	2101
65°	2001	1954	1961
70°	1801	1745	1740
75°	1512	1452	1445
80°	1104	1050	1095
85°	625	574	585

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2330 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.9	3.4
10°-20°	489.4	9.7
20°-30°	746.1	14.8
30°-40°	904.0	17.9
40°-50°	939.0	18.6
50°-60°	840.0	16.6
60°-70°	612.2	12.1
70°-80°	303.2	6.0
80°-90°	54.2	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°	1405.3	27.8
0°-40°	2309.3	45.7
0°-60°	4088.3	80.8
0°-90°	5057.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5057.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1790	1790	1790	1790	1790	
5°	1786	1787	1786	1786	1785	170
15°	1734	1733	1733	1734	1733	489
25°	1622	1620	1619	1618	1616	748
35°	1450	1448	1446	1444	1441	907
45°	1224	1222	1217	1215	1214	944
55°	952	944	938	938	937	848
65°	629	624	614	616	616	623
75°	291	286	279	284	278	310
85°	40	37	37	38	38	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1789.6	1789.6	1789.6	1789.6	1789.6
2.5°	1789.6	1788.9	1788.9	1789.6	1788.3
5°	1786.3	1787.0	1786.3	1786.3	1785.1
7.5°	1779.3	1778.6	1778.0	1778.6	1776.7
10°	1767.1	1767.1	1766.4	1767.1	1765.8
12.5°	1752.3	1752.3	1752.3	1753.0	1752.3
15°	1733.7	1733.0	1733.0	1734.3	1733.0
17.5°	1711.9	1711.2	1711.2	1710.6	1709.3
20°	1684.9	1684.9	1684.2	1683.6	1681.7
22.5°	1656.0	1655.4	1653.4	1653.4	1650.9
25°	1622.0	1620.0	1618.8	1618.1	1616.2
27.5°	1584.7	1582.2	1580.2	1578.9	1577.0
30°	1543.0	1540.4	1538.5	1536.6	1535.3
32.5°	1498.0	1496.8	1493.5	1492.9	1490.3
35°	1449.9	1448.0	1446.0	1443.5	1440.9
37.5°	1398.5	1396.6	1392.1	1390.8	1388.9
40°	1343.9	1341.4	1335.6	1335.6	1333.7
42.5°	1285.5	1282.9	1279.1	1276.5	1275.2
45°	1224.5	1221.9	1217.4	1214.9	1213.6
47.5°	1159.6	1157.7	1152.6	1150.7	1148.7
50°	1092.2	1089.7	1083.9	1082.6	1080.7
52.5°	1021.6	1020.3	1012.6	1012.0	1010.0
55°	951.6	944.5	938.1	938.1	936.8
57.5°	874.6	869.4	861.1	861.1	859.8
60°	794.9	790.4	780.8	782.1	780.8
62.5°	717.2	707.6	698.6	702.5	699.3
65°	628.6	623.5	613.9	616.4	615.8
67.5°	547.7	538.1	529.1	534.2	531.7
70°	457.8	452.7	443.7	448.8	442.4
72.5°	373.1	368.6	359.6	365.4	358.9
75°	290.9	286.4	279.3	284.5	278.0
77.5°	213.2	210.0	203.5	208.7	210.0
80°	142.5	138.7	135.5	140.0	141.3
82.5°	83.5	80.9	79.6	80.3	83.5
85°	40.5	37.2	37.2	37.9	37.9
87.5°	10.9	9.6	10.9	11.6	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)