

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: P974543

Luminaire Tested: FLR2-24-55HE-L830-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974543
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

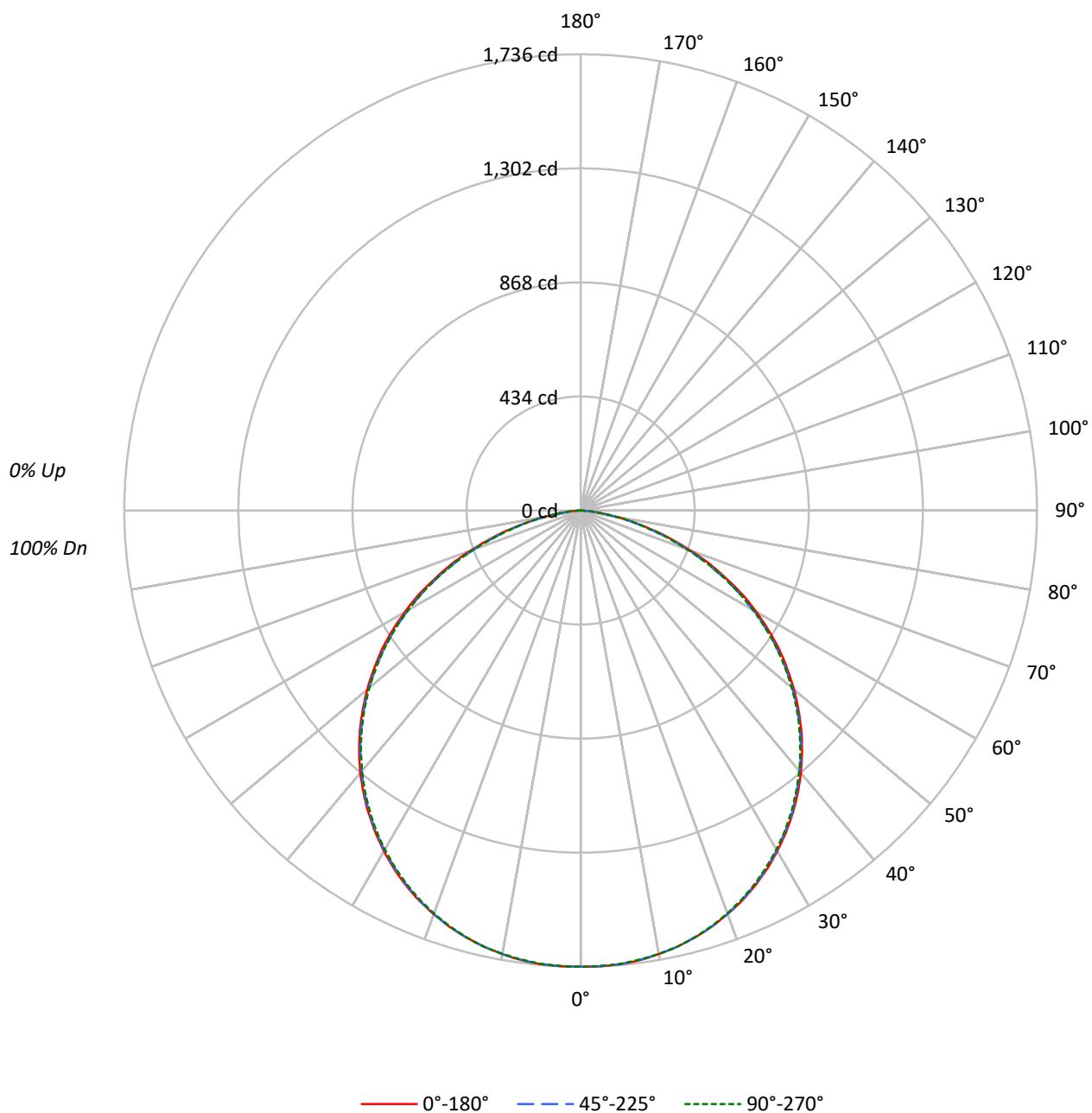
Lumens per Lamp: N/A
Luminaire Lumens: 4906.4 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2336	2336	2336
5°	2341	2341	2339
10°	2342	2341	2340
15°	2343	2342	2342
20°	2340	2339	2336
25°	2336	2331	2328
30°	2325	2319	2314
35°	2310	2304	2296
40°	2290	2276	2272
45°	2260	2247	2240
50°	2218	2201	2194
55°	2165	2135	2132
60°	2075	2038	2038
65°	1941	1896	1902
70°	1747	1693	1688
75°	1467	1409	1402
80°	1072	1018	1062
85°	605	557	568

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2260 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.8	3.4
10°-20°	474.7	9.7
20°-30°	723.8	14.8
30°-40°	876.9	17.9
40°-50°	910.9	18.6
50°-60°	814.8	16.6
60°-70°	593.9	12.1
70°-80°	294.1	6.0
80°-90°	52.6	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°	1363.3	27.8
0°-40°	2240.2	45.7
0°-60°	3965.9	80.8
0°-90°	4906.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4906.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1736	1736	1736	1736	1736	
5°	1733	1734	1733	1733	1732	165
15°	1682	1681	1681	1682	1681	475
25°	1573	1572	1570	1570	1568	725
35°	1406	1405	1403	1400	1398	880
45°	1188	1185	1181	1178	1177	915
55°	923	916	910	910	909	822
65°	610	605	596	598	597	605
75°	282	278	271	276	270	301
85°	39	36	36	37	37	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1736.0	1736.0	1736.0	1736.0	1736.0
2.5°	1736.0	1735.4	1735.4	1736.0	1734.8
5°	1732.9	1733.5	1732.9	1732.9	1731.6
7.5°	1726.0	1725.4	1724.8	1725.4	1723.5
10°	1714.2	1714.2	1713.6	1714.2	1713.0
12.5°	1699.9	1699.9	1699.9	1700.5	1699.9
15°	1681.8	1681.2	1681.2	1682.4	1681.2
17.5°	1660.6	1660.0	1660.0	1659.4	1658.1
20°	1634.5	1634.5	1633.8	1633.2	1631.4
22.5°	1606.4	1605.8	1603.9	1603.9	1601.5
25°	1573.4	1571.6	1570.3	1569.7	1567.8
27.5°	1537.3	1534.8	1532.9	1531.7	1529.8
30°	1496.8	1494.3	1492.5	1490.6	1489.3
32.5°	1453.2	1452.0	1448.8	1448.2	1445.7
35°	1406.5	1404.6	1402.8	1400.3	1397.8
37.5°	1356.7	1354.8	1350.4	1349.2	1347.3
40°	1303.7	1301.2	1295.6	1295.6	1293.7
42.5°	1247.0	1244.5	1240.8	1238.3	1237.1
45°	1187.9	1185.4	1181.0	1178.5	1177.3
47.5°	1124.9	1123.1	1118.1	1116.2	1114.4
50°	1059.5	1057.0	1051.4	1050.2	1048.3
52.5°	991.0	989.8	982.3	981.7	979.8
55°	923.1	916.3	910.0	910.0	908.8
57.5°	848.4	843.4	835.3	835.3	834.1
60°	771.1	766.8	757.4	758.7	757.4
62.5°	695.8	686.4	677.7	681.4	678.3
65°	609.8	604.8	595.5	598.0	597.4
67.5°	531.3	522.0	513.3	518.2	515.8
70°	444.1	439.1	430.4	435.4	429.2
72.5°	361.9	357.5	348.8	354.4	348.2
75°	282.2	277.8	271.0	275.9	269.7
77.5°	206.8	203.7	197.5	202.4	203.7
80°	138.3	134.5	131.4	135.8	137.0
82.5°	81.0	78.5	77.2	77.9	81.0
85°	39.2	36.1	36.1	36.8	36.8
87.5°	10.6	9.3	10.6	11.2	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)