

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: P974565

Luminaire Tested: FLR2-24-55HE-L830-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974565
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-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

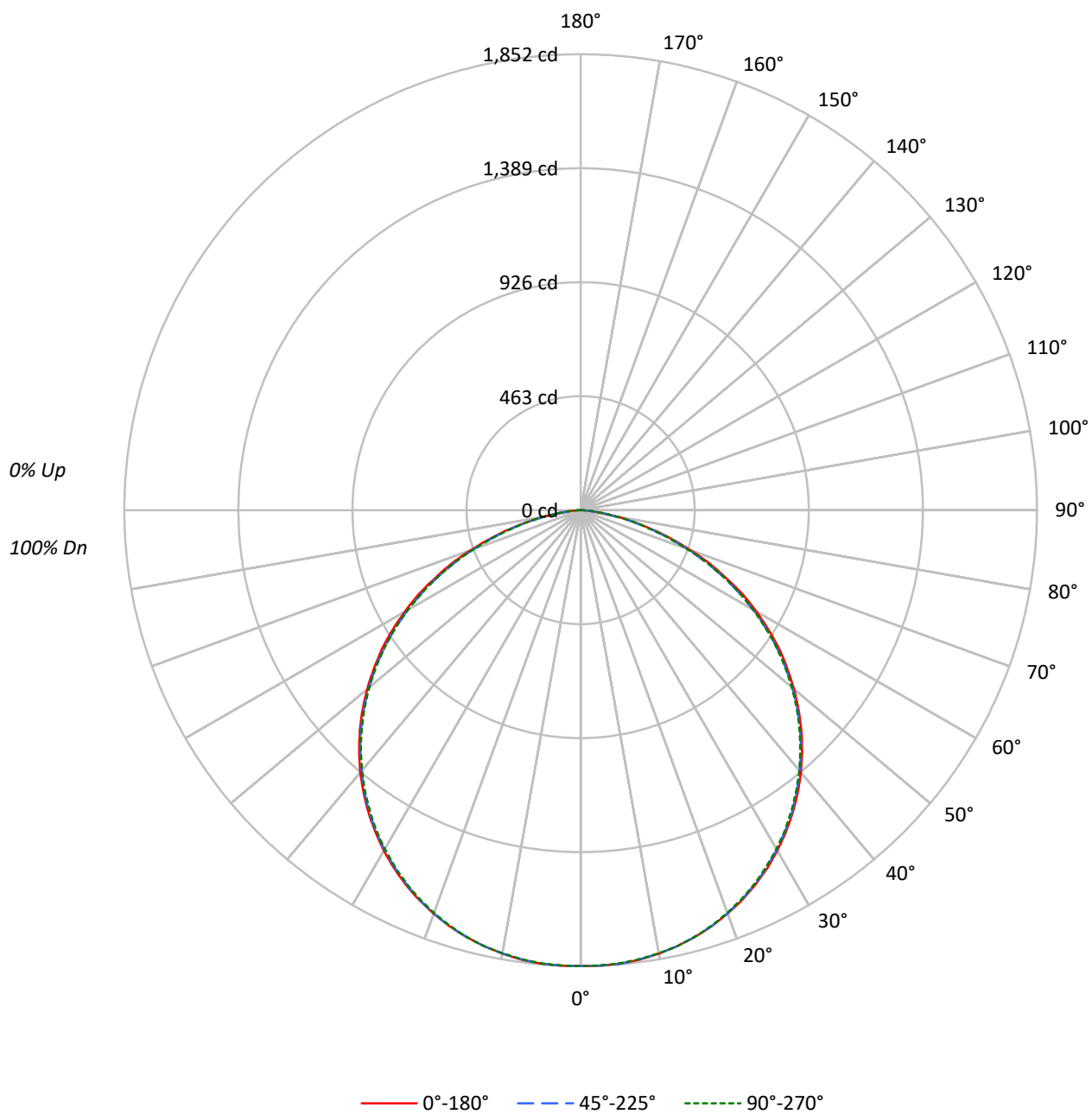
Lumens per Lamp: N/A
Luminaire Lumens: 5234.7 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2492	2492	2492
5°	2497	2497	2495
10°	2499	2498	2497
15°	2499	2499	2499
20°	2497	2496	2492
25°	2492	2487	2483
30°	2481	2474	2469
35°	2465	2458	2450
40°	2443	2428	2424
45°	2411	2398	2390
50°	2366	2348	2341
55°	2310	2278	2274
60°	2214	2175	2175
65°	2071	2023	2029
70°	1864	1806	1801
75°	1565	1503	1496
80°	1143	1086	1133
85°	647	594	605

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2411 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.8	3.4
10°-20°	506.5	9.7
20°-30°	772.2	14.8
30°-40°	935.6	17.9
40°-50°	971.8	18.6
50°-60°	869.4	16.6
60°-70°	633.6	12.1
70°-80°	313.8	6.0
80°-90°	56.1	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°	1454.5	27.8
0°-40°	2390.1	45.7
0°-60°	4231.3	80.8
0°-90°	5234.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5234.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1852	1852	1852	1852	1852	
5°	1849	1850	1849	1849	1848	176
15°	1794	1794	1794	1795	1794	507
25°	1679	1677	1675	1675	1673	774
35°	1501	1499	1497	1494	1491	939
45°	1267	1265	1260	1257	1256	977
55°	985	978	971	971	970	877
65°	651	645	635	638	637	645
75°	301	296	289	294	288	321
85°	42	38	38	39	39	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1852.2	1852.2	1852.2	1852.2	1852.2
2.5°	1852.2	1851.5	1851.5	1852.2	1850.8
5°	1848.8	1849.5	1848.8	1848.8	1847.5
7.5°	1841.5	1840.9	1840.2	1840.9	1838.9
10°	1828.9	1828.9	1828.2	1828.9	1827.6
12.5°	1813.6	1813.6	1813.6	1814.3	1813.6
15°	1794.3	1793.7	1793.7	1795.0	1793.7
17.5°	1771.7	1771.1	1771.1	1770.4	1769.1
20°	1743.8	1743.8	1743.2	1742.5	1740.5
22.5°	1713.9	1713.3	1711.3	1711.3	1708.6
25°	1678.7	1676.7	1675.4	1674.7	1672.7
27.5°	1640.2	1637.5	1635.5	1634.2	1632.2
30°	1597.0	1594.3	1592.3	1590.3	1589.0
32.5°	1550.4	1549.1	1545.8	1545.1	1542.5
35°	1500.6	1498.6	1496.6	1494.0	1491.3
37.5°	1447.4	1445.4	1440.8	1439.5	1437.5
40°	1390.9	1388.3	1382.3	1382.3	1380.3
42.5°	1330.5	1327.8	1323.8	1321.2	1319.8
45°	1267.3	1264.7	1260.0	1257.4	1256.0
47.5°	1200.2	1198.2	1192.9	1190.9	1188.9
50°	1130.4	1127.8	1121.8	1120.5	1118.5
52.5°	1057.3	1056.0	1048.0	1047.4	1045.4
55°	984.9	977.6	970.9	970.9	969.6
57.5°	905.1	899.8	891.2	891.2	889.9
60°	822.7	818.1	808.1	809.4	808.1
62.5°	742.3	732.4	723.1	727.0	723.7
65°	650.6	645.3	635.3	638.0	637.3
67.5°	566.9	556.9	547.6	552.9	550.3
70°	473.8	468.5	459.2	464.5	457.9
72.5°	386.1	381.5	372.2	378.1	371.5
75°	301.1	296.4	289.1	294.4	287.8
77.5°	220.6	217.3	210.7	216.0	217.3
80°	147.5	143.5	140.2	144.9	146.2
82.5°	86.4	83.7	82.4	83.1	86.4
85°	41.9	38.5	38.5	39.2	39.2
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)