

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: P974862

Luminaire Tested: FLR2-24-55HE-L840-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974862
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-L840-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

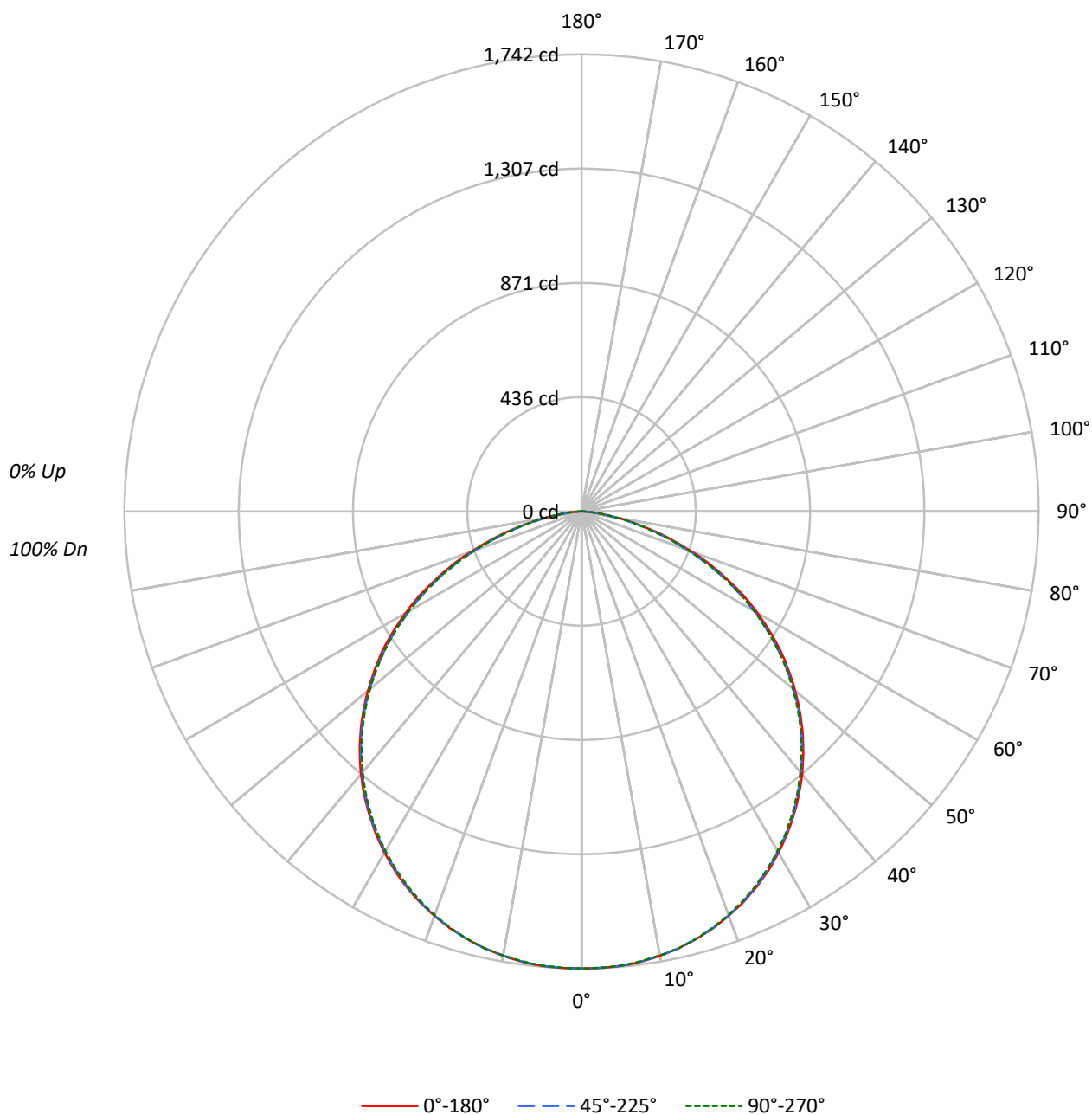
Lumens per Lamp: N/A
Luminaire Lumens: 4922.7 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2343	2343	2343
5°	2348	2348	2347
10°	2350	2349	2348
15°	2350	2349	2349
20°	2348	2347	2343
25°	2344	2339	2335
30°	2333	2326	2322
35°	2318	2312	2303
40°	2297	2283	2280
45°	2268	2255	2248
50°	2225	2208	2202
55°	2173	2142	2139
60°	2082	2045	2045
65°	1948	1902	1908
70°	1753	1699	1694
75°	1472	1413	1407
80°	1075	1022	1065
85°	608	559	570

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2268 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.3	3.4
10°-20°	476.3	9.7
20°-30°	726.2	14.8
30°-40°	879.8	17.9
40°-50°	913.9	18.6
50°-60°	817.5	16.6
60°-70°	595.8	12.1
70°-80°	295.1	6.0
80°-90°	52.7	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°	1367.8	27.8
0°-40°	2247.6	45.7
0°-60°	3979.0	80.8
0°-90°	4922.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4922.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1742	1742	1742	1742	1742	
5°	1739	1739	1739	1739	1737	165
15°	1687	1687	1687	1688	1687	476
25°	1579	1577	1576	1575	1573	728
35°	1411	1409	1407	1405	1402	883
45°	1192	1189	1185	1182	1181	918
55°	926	919	913	913	912	825
65°	612	607	598	600	599	607
75°	283	279	272	277	271	302
85°	39	36	36	37	37	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1741.7	1741.7	1741.7	1741.7	1741.7
2.5°	1741.7	1741.1	1741.1	1741.7	1740.5
5°	1738.6	1739.2	1738.6	1738.6	1737.4
7.5°	1731.7	1731.1	1730.5	1731.1	1729.2
10°	1719.9	1719.9	1719.2	1719.9	1718.6
12.5°	1705.5	1705.5	1705.5	1706.1	1705.5
15°	1687.4	1686.7	1686.7	1688.0	1686.7
17.5°	1666.1	1665.5	1665.5	1664.9	1663.6
20°	1639.9	1639.9	1639.2	1638.6	1636.7
22.5°	1611.7	1611.1	1609.2	1609.2	1606.7
25°	1578.6	1576.8	1575.5	1574.9	1573.0
27.5°	1542.4	1539.9	1538.0	1536.8	1534.9
30°	1501.8	1499.3	1497.4	1495.5	1494.3
32.5°	1458.0	1456.8	1453.6	1453.0	1450.5
35°	1411.1	1409.3	1407.4	1404.9	1402.4
37.5°	1361.1	1359.3	1354.9	1353.6	1351.8
40°	1308.0	1305.5	1299.9	1299.9	1298.0
42.5°	1251.2	1248.7	1244.9	1242.4	1241.2
45°	1191.8	1189.3	1184.9	1182.4	1181.2
47.5°	1128.7	1126.8	1121.8	1119.9	1118.0
50°	1063.0	1060.5	1054.9	1053.7	1051.8
52.5°	994.3	993.0	985.5	984.9	983.0
55°	926.2	919.3	913.1	913.1	911.8
57.5°	851.2	846.2	838.1	838.1	836.8
60°	773.7	769.3	759.9	761.2	759.9
62.5°	698.1	688.7	679.9	683.7	680.6
65°	611.8	606.8	597.5	600.0	599.3
67.5°	533.1	523.7	515.0	520.0	517.5
70°	445.6	440.6	431.8	436.8	430.6
72.5°	363.1	358.7	350.0	355.6	349.3
75°	283.1	278.7	271.9	276.9	270.6
77.5°	207.5	204.4	198.1	203.1	204.4
80°	138.7	135.0	131.9	136.2	137.5
82.5°	81.2	78.7	77.5	78.1	81.2
85°	39.4	36.2	36.2	36.9	36.9
87.5°	10.6	9.4	10.6	11.2	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)