

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: P975016

Luminaire Tested: FLR2-24-55HE-L850-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975016
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-L850-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

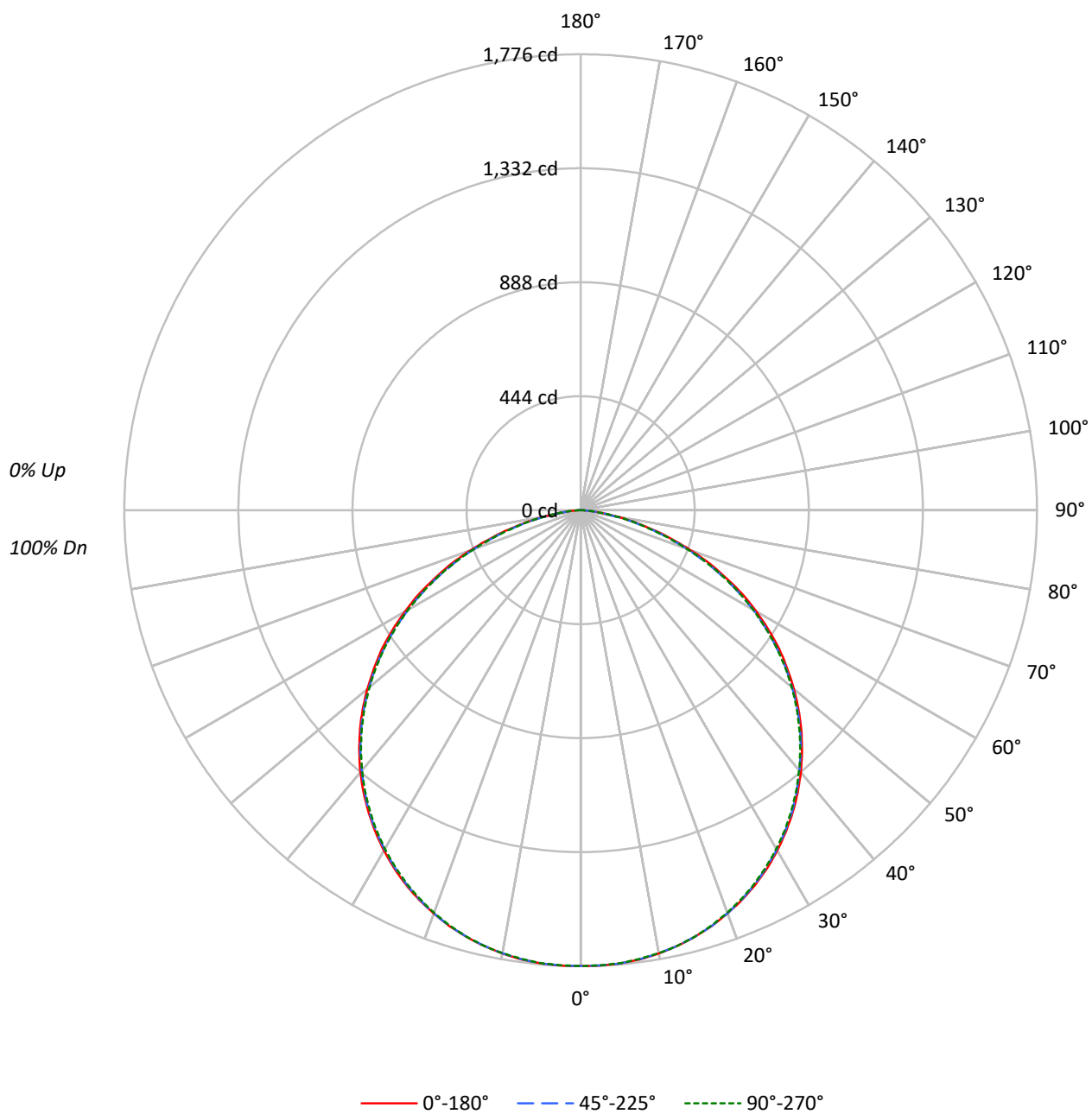
Lumens per Lamp: N/A
Luminaire Lumens: 5018.3 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2389	2389	2389
5°	2394	2394	2392
10°	2395	2394	2394
15°	2396	2395	2395
20°	2394	2393	2389
25°	2389	2384	2381
30°	2378	2372	2367
35°	2363	2357	2348
40°	2342	2327	2324
45°	2312	2298	2291
50°	2268	2251	2244
55°	2215	2183	2180
60°	2122	2085	2085
65°	1986	1939	1945
70°	1787	1732	1727
75°	1500	1441	1434
80°	1096	1041	1086
85°	619	571	580

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2312 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.5	3.4
10°-20°	485.5	9.7
20°-30°	740.3	14.8
30°-40°	896.9	17.9
40°-50°	931.6	18.6
50°-60°	833.4	16.6
60°-70°	607.4	12.1
70°-80°	300.8	6.0
80°-90°	53.8	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°	1394.3	27.8
0°-40°	2291.2	45.7
0°-60°	4056.3	80.8
0°-90°	5018.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5018.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1776	1776	1776	1776	1776	
5°	1772	1773	1772	1772	1771	169
15°	1720	1720	1720	1721	1720	486
25°	1609	1607	1606	1606	1604	742
35°	1438	1437	1435	1432	1430	900
45°	1215	1212	1208	1205	1204	936
55°	944	937	931	931	930	841
65°	624	619	609	612	611	618
75°	289	284	277	282	276	308
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°	1775.6	1775.6	1775.6	1775.6	1775.6
2.5°	1775.6	1774.9	1774.9	1775.6	1774.3
5°	1772.4	1773.0	1772.4	1772.4	1771.1
7.5°	1765.4	1764.7	1764.1	1764.7	1762.8
10°	1753.3	1753.3	1752.6	1753.3	1752.0
12.5°	1738.6	1738.6	1738.6	1739.2	1738.6
15°	1720.1	1719.5	1719.5	1720.8	1719.5
17.5°	1698.5	1697.8	1697.8	1697.2	1695.9
20°	1671.7	1671.7	1671.1	1670.4	1668.5
22.5°	1643.0	1642.4	1640.5	1640.5	1637.9
25°	1609.3	1607.4	1606.1	1605.5	1603.5
27.5°	1572.3	1569.8	1567.9	1566.6	1564.7
30°	1530.9	1528.4	1526.5	1524.5	1523.3
32.5°	1486.3	1485.0	1481.9	1481.2	1478.7
35°	1438.5	1436.6	1434.7	1432.2	1429.6
37.5°	1387.6	1385.7	1381.2	1379.9	1378.0
40°	1333.4	1330.9	1325.1	1325.1	1323.2
42.5°	1275.4	1272.9	1269.1	1266.5	1265.3
45°	1214.9	1212.4	1207.9	1205.4	1204.1
47.5°	1150.6	1148.7	1143.6	1141.7	1139.7
50°	1083.7	1081.1	1075.4	1074.1	1072.2
52.5°	1013.6	1012.3	1004.7	1004.0	1002.1
55°	944.2	937.2	930.8	930.8	929.5
57.5°	867.7	862.6	854.3	854.3	853.1
60°	788.7	784.3	774.7	776.0	774.7
62.5°	711.6	702.1	693.1	697.0	693.8
65°	623.7	618.6	609.1	611.6	611.0
67.5°	543.4	533.9	525.0	530.1	527.5
70°	454.2	449.1	440.2	445.3	439.0
72.5°	370.1	365.7	356.8	362.5	356.1
75°	288.6	284.1	277.1	282.2	275.9
77.5°	211.5	208.3	202.0	207.1	208.3
80°	141.4	137.6	134.4	138.9	140.2
82.5°	82.8	80.3	79.0	79.6	82.8
85°	40.1	37.0	37.0	37.6	37.6
87.5°	10.8	9.6	10.8	11.5	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)