

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: P975104

Luminaire Tested: FLR2-24-55HE-L950-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975104
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-L950-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

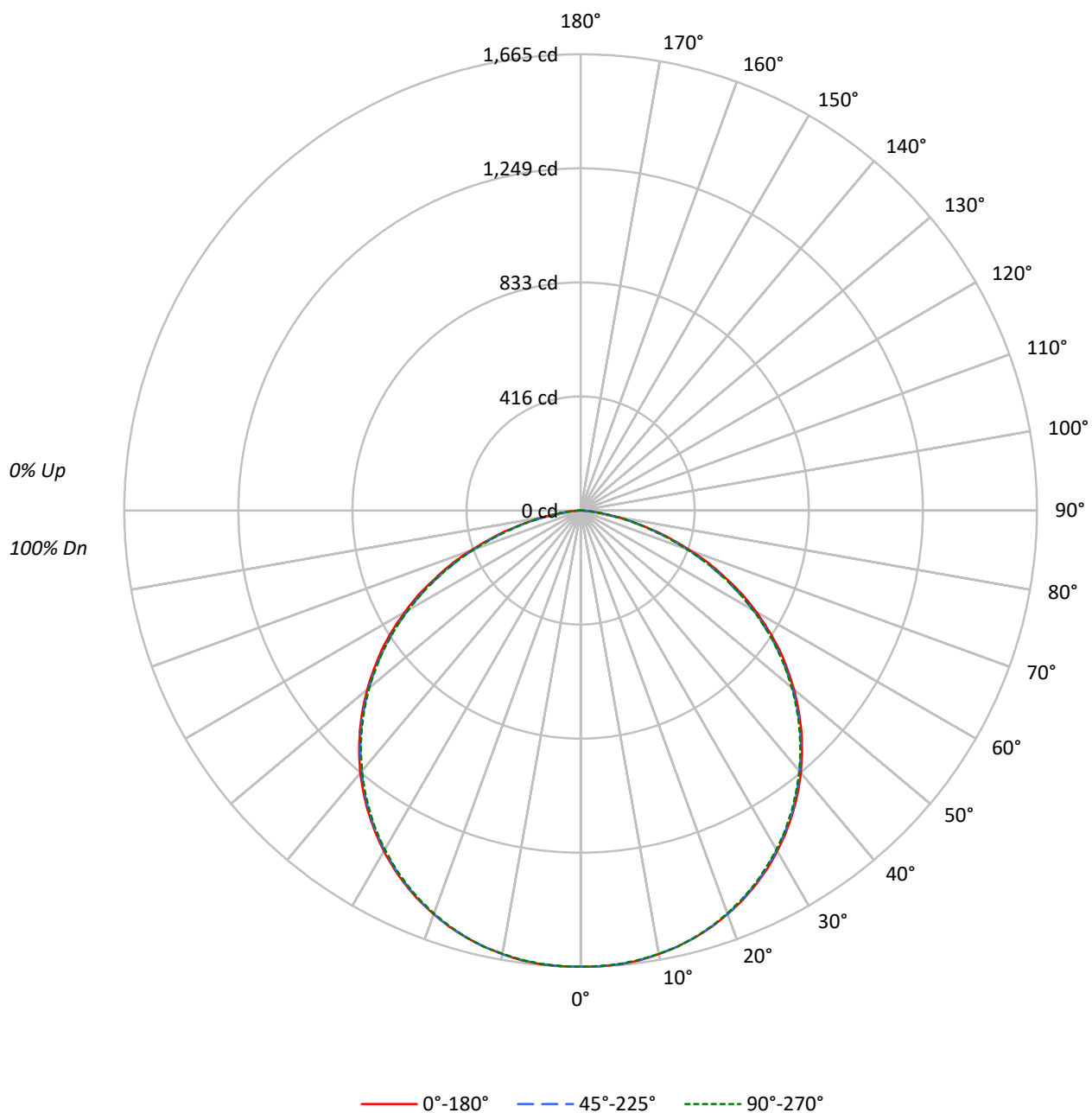
Lumens per Lamp: N/A
Luminaire Lumens: 4706.0 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2240	2240	2240
5°	2245	2245	2243
10°	2246	2246	2245
15°	2247	2246	2246
20°	2245	2244	2240
25°	2240	2236	2233
30°	2231	2224	2219
35°	2216	2210	2202
40°	2196	2183	2180
45°	2168	2155	2149
50°	2127	2111	2105
55°	2077	2048	2045
60°	1990	1955	1955
65°	1862	1819	1824
70°	1676	1624	1619
75°	1407	1351	1345
80°	1027	977	1018
85°	580	536	543

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2168 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.0	3.4
10°-20°	455.3	9.7
20°-30°	694.2	14.8
30°-40°	841.1	17.9
40°-50°	873.7	18.6
50°-60°	781.6	16.6
60°-70°	569.6	12.1
70°-80°	282.1	6.0
80°-90°	50.4	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°	1307.6	27.8
0°-40°	2148.7	45.7
0°-60°	3803.9	80.8
0°-90°	4706.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4706.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1665	1665	1665	1665	1665	
5°	1662	1663	1662	1662	1661	158
15°	1613	1612	1612	1614	1612	455
25°	1509	1507	1506	1506	1504	696
35°	1349	1347	1345	1343	1341	844
45°	1139	1137	1133	1130	1129	878
55°	885	879	873	873	872	789
65°	585	580	571	574	573	580
75°	271	266	260	265	259	289
85°	38	35	35	35	35	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1665.1	1665.1	1665.1	1665.1	1665.1
2.5°	1665.1	1664.5	1664.5	1665.1	1663.9
5°	1662.1	1662.7	1662.1	1662.1	1660.9
7.5°	1655.5	1654.9	1654.3	1654.9	1653.1
10°	1644.2	1644.2	1643.6	1644.2	1643.0
12.5°	1630.4	1630.4	1630.4	1631.0	1630.4
15°	1613.1	1612.5	1612.5	1613.7	1612.5
17.5°	1592.8	1592.2	1592.2	1591.6	1590.4
20°	1567.7	1567.7	1567.1	1566.5	1564.7
22.5°	1540.8	1540.2	1538.4	1538.4	1536.0
25°	1509.1	1507.3	1506.2	1505.6	1503.8
27.5°	1474.5	1472.1	1470.3	1469.1	1467.3
30°	1435.7	1433.3	1431.5	1429.7	1428.5
32.5°	1393.8	1392.6	1389.6	1389.1	1386.7
35°	1349.0	1347.2	1345.4	1343.0	1340.7
37.5°	1301.2	1299.4	1295.3	1294.1	1292.3
40°	1250.4	1248.1	1242.7	1242.7	1240.9
42.5°	1196.1	1193.7	1190.1	1187.7	1186.5
45°	1139.3	1136.9	1132.7	1130.4	1129.2
47.5°	1079.0	1077.2	1072.4	1070.6	1068.8
50°	1016.2	1013.9	1008.5	1007.3	1005.5
52.5°	950.5	949.3	942.2	941.6	939.8
55°	885.4	878.8	872.9	872.9	871.7
57.5°	813.7	808.9	801.2	801.2	800.0
60°	739.6	735.5	726.5	727.7	726.5
62.5°	667.3	658.4	650.0	653.6	650.6
65°	584.9	580.1	571.2	573.5	572.9
67.5°	509.6	500.7	492.3	497.1	494.7
70°	426.0	421.2	412.8	417.6	411.6
72.5°	347.1	342.9	334.6	339.9	334.0
75°	270.6	266.5	259.9	264.7	258.7
77.5°	198.4	195.4	189.4	194.2	195.4
80°	132.6	129.0	126.1	130.2	131.4
82.5°	77.7	75.3	74.1	74.7	77.7
85°	37.6	34.7	34.7	35.2	35.2
87.5°	10.2	9.0	10.2	10.8	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)