

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: P975093

Luminaire Tested: FLR2-24-55HE-L950-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975093
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-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

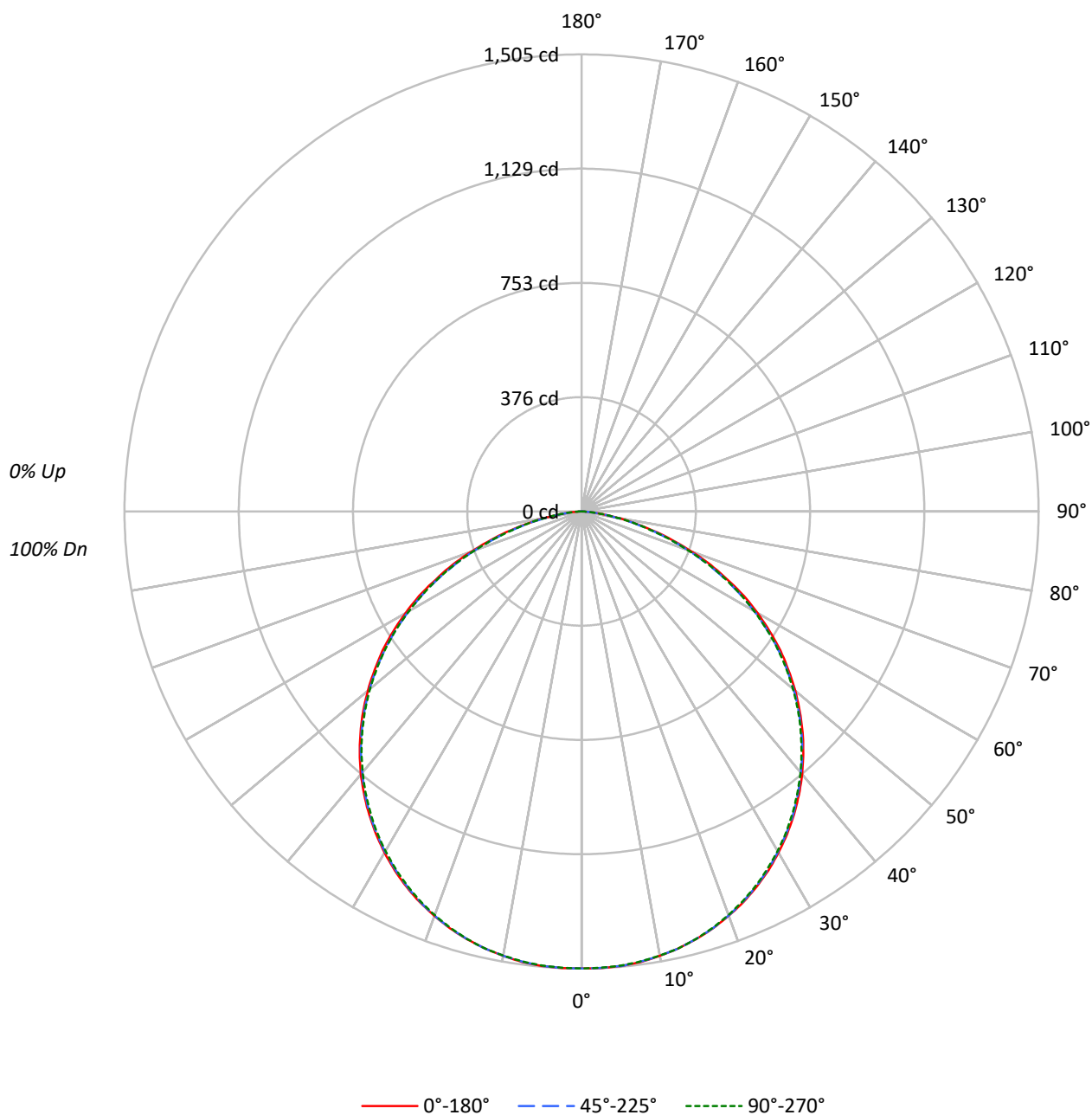
Lumens per Lamp: N/A
Luminaire Lumens: 4253.6 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2025	2025	2025
5°	2029	2029	2028
10°	2030	2030	2029
15°	2031	2030	2030
20°	2029	2028	2025
25°	2025	2021	2018
30°	2016	2010	2006
35°	2003	1997	1990
40°	1985	1973	1970
45°	1960	1948	1942
50°	1923	1908	1902
55°	1877	1851	1848
60°	1799	1767	1767
65°	1683	1643	1649
70°	1515	1468	1464
75°	1272	1221	1215
80°	929	883	921
85°	525	483	492

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1960 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.9	3.4
10°-20°	411.5	9.7
20°-30°	627.5	14.8
30°-40°	760.2	17.9
40°-50°	789.7	18.6
50°-60°	706.4	16.6
60°-70°	514.8	12.1
70°-80°	255.0	6.0
80°-90°	45.6	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°	1181.9	27.8
0°-40°	1942.1	45.7
0°-60°	3438.2	80.8
0°-90°	4253.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4253.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1505	1505	1505	1505	1505	
5°	1502	1503	1502	1502	1501	143
15°	1458	1458	1458	1459	1458	412
25°	1364	1362	1361	1361	1359	629
35°	1219	1218	1216	1214	1212	763
45°	1030	1028	1024	1022	1021	794
55°	800	794	789	789	788	713
65°	529	524	516	518	518	524
75°	245	241	235	239	234	261
85°	34	31	31	32	32	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1505.0	1505.0	1505.0	1505.0	1505.0
2.5°	1505.0	1504.5	1504.5	1505.0	1503.9
5°	1502.3	1502.8	1502.3	1502.3	1501.2
7.5°	1496.4	1495.8	1495.3	1495.8	1494.2
10°	1486.1	1486.1	1485.6	1486.1	1485.0
12.5°	1473.7	1473.7	1473.7	1474.2	1473.7
15°	1458.0	1457.5	1457.5	1458.6	1457.5
17.5°	1439.7	1439.1	1439.1	1438.6	1437.5
20°	1417.0	1417.0	1416.4	1415.9	1414.3
22.5°	1392.7	1392.1	1390.5	1390.5	1388.4
25°	1364.1	1362.4	1361.4	1360.8	1359.2
27.5°	1332.7	1330.6	1329.0	1327.9	1326.3
30°	1297.6	1295.5	1293.9	1292.2	1291.2
32.5°	1259.8	1258.8	1256.1	1255.5	1253.4
35°	1219.3	1217.7	1216.1	1213.9	1211.8
37.5°	1176.1	1174.5	1170.7	1169.7	1168.0
40°	1130.2	1128.1	1123.2	1123.2	1121.6
42.5°	1081.1	1078.9	1075.7	1073.5	1072.5
45°	1029.8	1027.6	1023.9	1021.7	1020.6
47.5°	975.3	973.6	969.3	967.7	966.1
50°	918.6	916.4	911.5	910.4	908.8
52.5°	859.1	858.1	851.6	851.0	849.4
55°	800.3	794.3	788.9	788.9	787.9
57.5°	735.5	731.2	724.1	724.1	723.1
60°	668.5	664.7	656.6	657.7	656.6
62.5°	603.2	595.1	587.5	590.8	588.1
65°	528.7	524.3	516.2	518.4	517.9
67.5°	460.6	452.5	445.0	449.3	447.1
70°	385.0	380.7	373.1	377.5	372.1
72.5°	313.7	310.0	302.4	307.3	301.9
75°	244.6	240.8	234.9	239.2	233.8
77.5°	179.3	176.6	171.2	175.5	176.6
80°	119.9	116.6	113.9	117.7	118.8
82.5°	70.2	68.0	67.0	67.5	70.2
85°	34.0	31.3	31.3	31.9	31.9
87.5°	9.2	8.1	9.2	9.7	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)