

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: P975015

Luminaire Tested: FLR2-24-45HE-L850-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975015
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: FLR2-24-45HE-L850-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

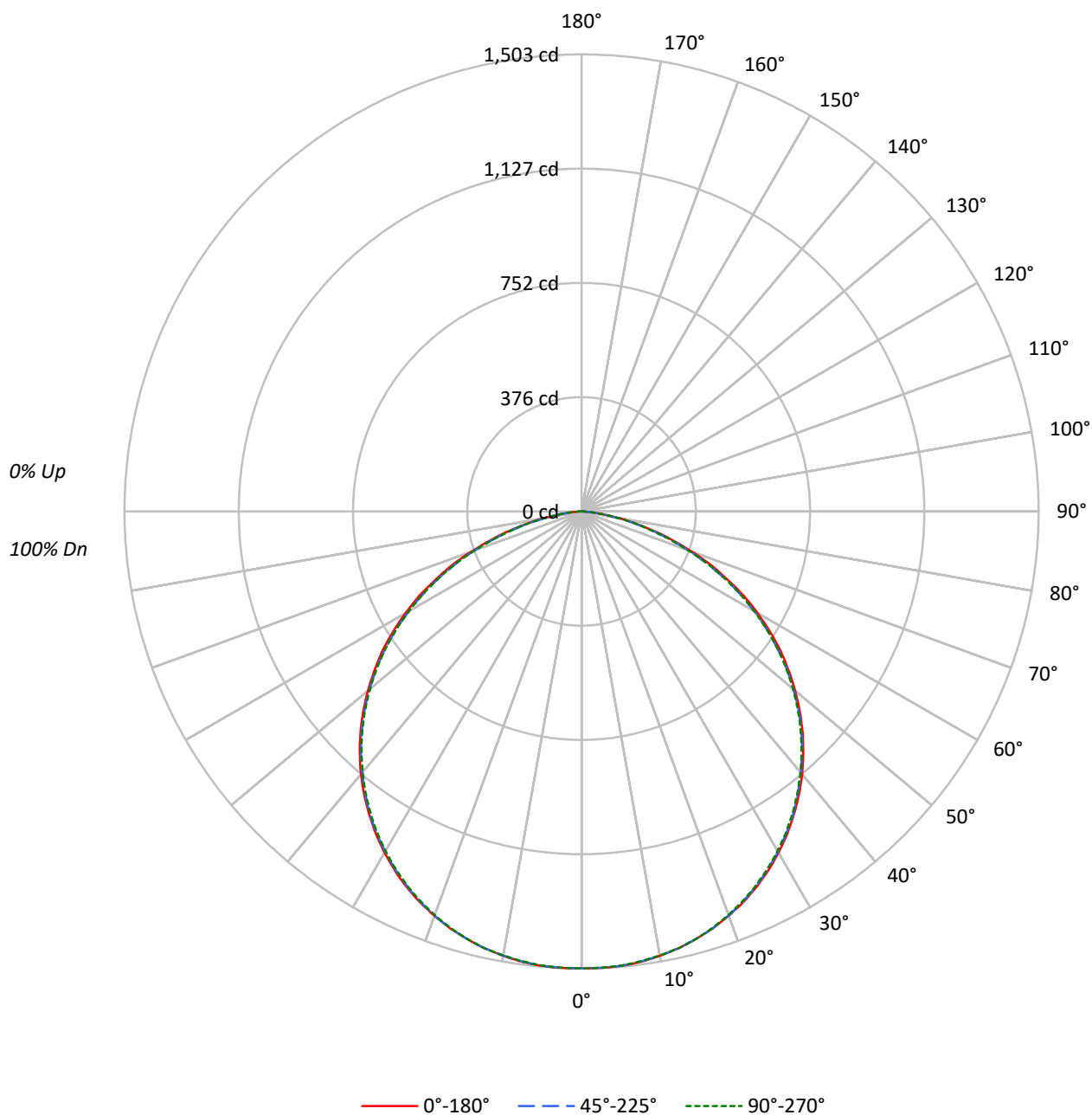
Lumens per Lamp: N/A
Luminaire Lumens: 4247.3 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.7
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°	2022	2022	2022
5°	2026	2026	2025
10°	2027	2027	2026
15°	2028	2027	2027
20°	2026	2025	2022
25°	2022	2018	2015
30°	2013	2007	2003
35°	2000	1995	1987
40°	1982	1970	1967
45°	1957	1945	1939
50°	1920	1905	1900
55°	1875	1848	1845
60°	1796	1764	1764
65°	1681	1641	1646
70°	1512	1466	1461
75°	1270	1220	1214
80°	927	882	919
85°	525	483	491

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1957 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.6	3.4
10°-20°	410.9	9.7
20°-30°	626.5	14.8
30°-40°	759.1	17.9
40°-50°	788.5	18.6
50°-60°	705.4	16.6
60°-70°	514.1	12.1
70°-80°	254.6	6.0
80°-90°	45.5	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°	1180.1	27.8
0°-40°	1939.2	45.7
0°-60°	3433.1	80.8
0°-90°	4247.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4247.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1503	1503	1503	1503	1503	
5°	1500	1501	1500	1500	1499	143
15°	1456	1455	1455	1456	1455	411
25°	1362	1360	1359	1359	1357	628
35°	1218	1216	1214	1212	1210	762
45°	1028	1026	1022	1020	1019	792
55°	799	793	788	788	787	712
65°	528	524	516	518	517	523
75°	244	240	235	239	234	260
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°	1502.8	1502.8	1502.8	1502.8	1502.8
2.5°	1502.8	1502.2	1502.2	1502.8	1501.7
5°	1500.1	1500.6	1500.1	1500.1	1499.0
7.5°	1494.1	1493.6	1493.0	1493.6	1492.0
10°	1483.9	1483.9	1483.3	1483.9	1482.8
12.5°	1471.5	1471.5	1471.5	1472.0	1471.5
15°	1455.8	1455.3	1455.3	1456.4	1455.3
17.5°	1437.5	1437.0	1437.0	1436.4	1435.4
20°	1414.9	1414.9	1414.3	1413.8	1412.2
22.5°	1390.6	1390.1	1388.4	1388.4	1386.3
25°	1362.0	1360.4	1359.3	1358.8	1357.2
27.5°	1330.7	1328.6	1327.0	1325.9	1324.3
30°	1295.7	1293.5	1291.9	1290.3	1289.2
32.5°	1258.0	1256.9	1254.2	1253.6	1251.5
35°	1217.5	1215.9	1214.3	1212.1	1210.0
37.5°	1174.4	1172.8	1169.0	1167.9	1166.3
40°	1128.5	1126.4	1121.5	1121.5	1119.9
42.5°	1079.5	1077.3	1074.1	1071.9	1070.9
45°	1028.3	1026.1	1022.3	1020.2	1019.1
47.5°	973.8	972.2	967.9	966.2	964.6
50°	917.2	915.0	910.2	909.1	907.5
52.5°	857.9	856.8	850.3	849.8	848.2
55°	799.1	793.2	787.8	787.8	786.7
57.5°	734.4	730.1	723.1	723.1	722.0
60°	667.5	663.8	655.7	656.7	655.7
62.5°	602.3	594.2	586.6	589.9	587.2
65°	527.9	523.6	515.5	517.6	517.1
67.5°	459.9	451.8	444.3	448.6	446.5
70°	384.4	380.1	372.6	376.9	371.5
72.5°	313.3	309.5	302.0	306.8	301.4
75°	244.3	240.5	234.6	238.9	233.5
77.5°	179.0	176.3	170.9	175.2	176.3
80°	119.7	116.5	113.8	117.5	118.6
82.5°	70.1	67.9	66.9	67.4	70.1
85°	34.0	31.3	31.3	31.8	31.8
87.5°	9.2	8.1	9.2	9.7	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)