

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: P974674

Luminaire Tested: FLR2-24-45HE-L835-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974674
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-L835-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

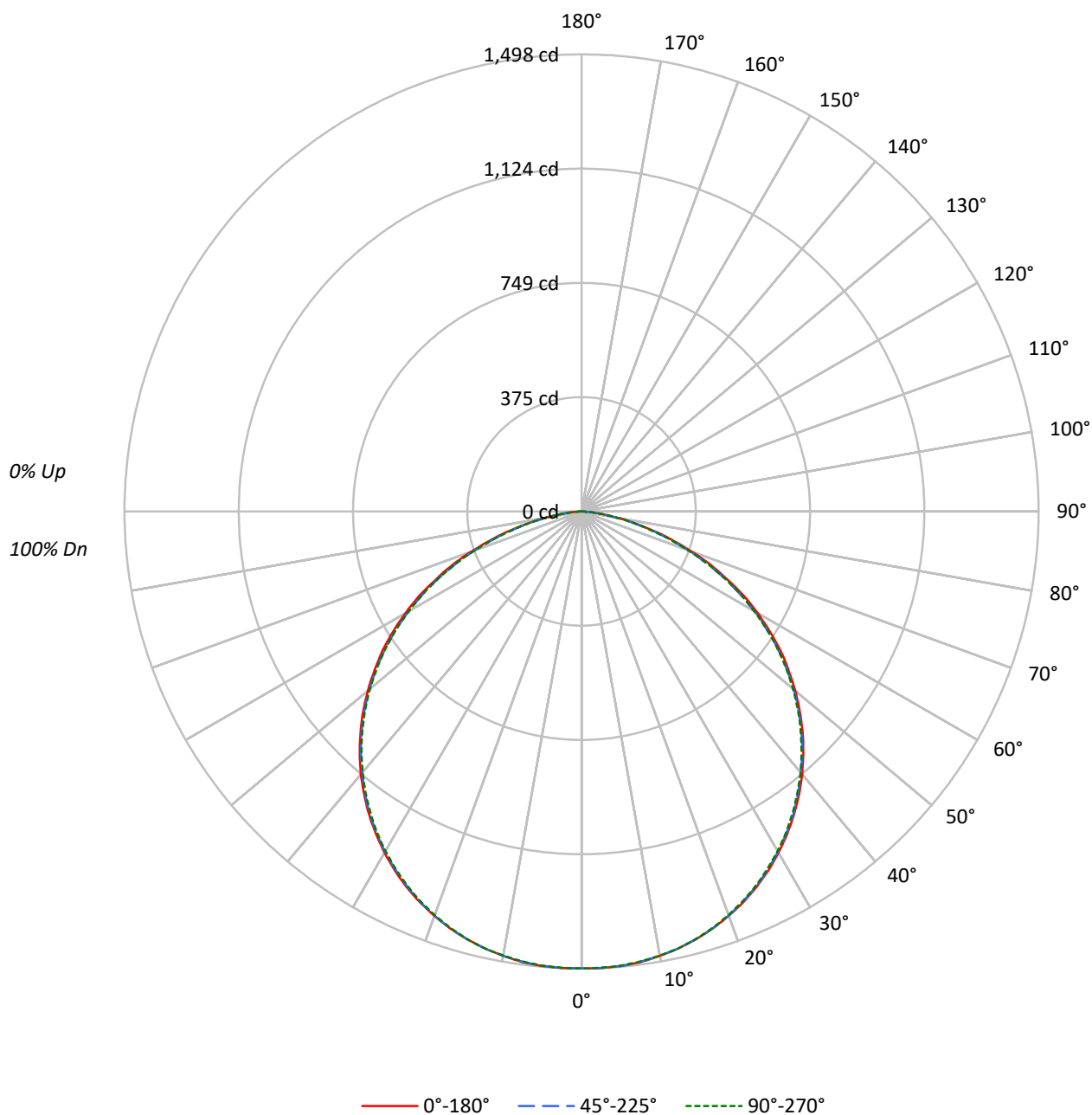
Lumens per Lamp: N/A
Luminaire Lumens: 4233.9 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	109	105	100	97	106	102	99	95	98	95	92		94	92	89		85
2	99	91	85	79	97	89	83	78	86	81	76		83	78	75		71
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		60
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		51
5	76	64	55	48	74	62	54	48	60	53	47		58	52	47		44
6	70	57	48	42	69	56	48	42	54	47	41		53	46	41		38
7	65	52	43	37	64	51	43	37	49	42	37		48	41	36		34
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		30
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		27
10	53	40	32	27	52	39	32	27	38	31	27		38	31	26		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2016	2016	2016
5°	2020	2020	2018
10°	2021	2020	2020
15°	2022	2021	2021
20°	2019	2019	2016
25°	2016	2012	2008
30°	2007	2001	1997
35°	1994	1988	1981
40°	1976	1964	1961
45°	1950	1939	1933
50°	1914	1899	1894
55°	1869	1842	1840
60°	1791	1759	1759
65°	1675	1636	1641
70°	1507	1461	1457
75°	1266	1215	1210
80°	924	879	917
85°	523	482	489

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1950 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.2	3.4
10°-20°	409.6	9.7
20°-30°	624.6	14.8
30°-40°	756.7	17.9
40°-50°	786.0	18.6
50°-60°	703.2	16.6
60°-70°	512.5	12.1
70°-80°	253.8	6.0
80°-90°	45.4	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°	1176.4	27.8
0°-40°	1933.1	45.7
0°-60°	3422.3	80.8
0°-90°	4233.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4233.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1498	1498	1498	1498	1498	
5°	1495	1496	1495	1495	1494	142
15°	1451	1451	1451	1452	1451	410
25°	1358	1356	1355	1354	1353	626
35°	1214	1212	1210	1208	1206	759
45°	1025	1023	1019	1017	1016	790
55°	797	791	785	785	784	710
65°	526	522	514	516	516	522
75°	244	240	234	238	233	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°	1498.1	1498.1	1498.1	1498.1	1498.1
2.5°	1498.1	1497.5	1497.5	1498.1	1497.0
5°	1495.4	1495.9	1495.4	1495.4	1494.3
7.5°	1489.5	1488.9	1488.4	1488.9	1487.3
10°	1479.2	1479.2	1478.7	1479.2	1478.2
12.5°	1466.9	1466.9	1466.9	1467.4	1466.9
15°	1451.3	1450.8	1450.8	1451.8	1450.8
17.5°	1433.0	1432.5	1432.5	1431.9	1430.9
20°	1410.4	1410.4	1409.9	1409.4	1407.8
22.5°	1386.3	1385.7	1384.1	1384.1	1382.0
25°	1357.8	1356.2	1355.1	1354.5	1352.9
27.5°	1326.6	1324.4	1322.8	1321.8	1320.1
30°	1291.6	1289.5	1287.9	1286.3	1285.2
32.5°	1254.0	1252.9	1250.3	1249.7	1247.6
35°	1213.7	1212.1	1210.5	1208.3	1206.2
37.5°	1170.7	1169.1	1165.3	1164.3	1162.6
40°	1125.0	1122.9	1118.0	1118.0	1116.4
42.5°	1076.1	1074.0	1070.7	1068.6	1067.5
45°	1025.0	1022.9	1019.1	1017.0	1015.9
47.5°	970.8	969.1	964.8	963.2	961.6
50°	914.3	912.2	907.3	906.3	904.6
52.5°	855.2	854.1	847.7	847.1	845.5
55°	796.6	790.7	785.3	785.3	784.2
57.5°	732.1	727.8	720.8	720.8	719.7
60°	665.4	661.7	653.6	654.7	653.6
62.5°	600.4	592.3	584.8	588.0	585.4
65°	526.2	521.9	513.9	516.0	515.5
67.5°	458.5	450.4	442.9	447.2	445.1
70°	383.2	378.9	371.4	375.7	370.3
72.5°	312.3	308.5	301.0	305.8	300.5
75°	243.5	239.7	233.8	238.1	232.7
77.5°	178.5	175.8	170.4	174.7	175.8
80°	119.3	116.1	113.4	117.2	118.3
82.5°	69.9	67.7	66.7	67.2	69.9
85°	33.9	31.2	31.2	31.7	31.7
87.5°	9.1	8.1	9.1	9.7	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)