

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: P974197

Luminaire Tested: FLR2-24-45-L835-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974197
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: FLR2-24-45-L835-CP250
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-45-L835-CP250
Ballast/Driver: -

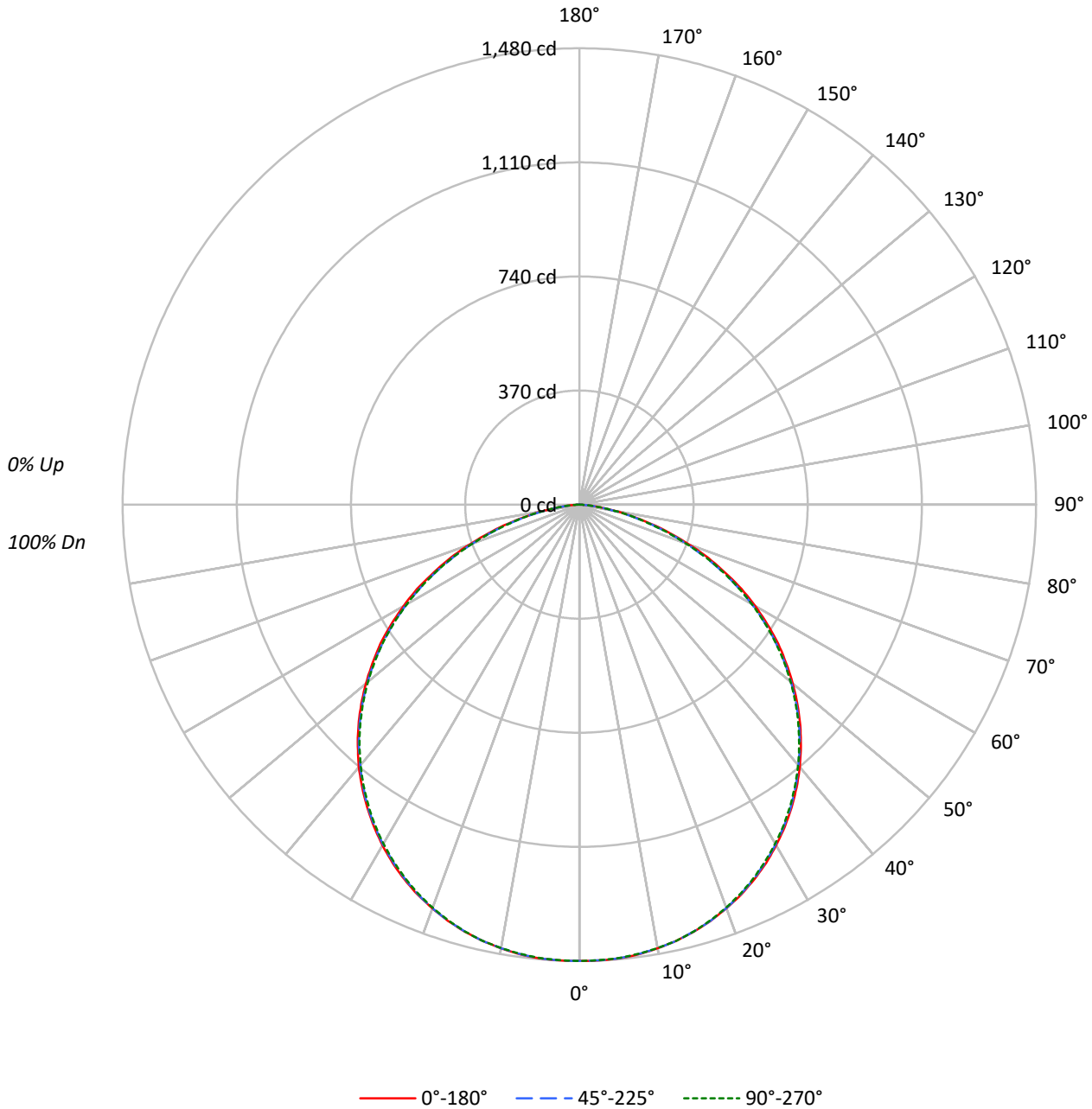
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4182.6 lumens
Efficiency: N/A
Efficacy: 117.5 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): 35.6
Input Voltage (V): 120
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				10	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1991	1991	1991
5°	1995	1995	1994
10°	1996	1996	1995
15°	1997	1996	1996
20°	1995	1994	1991
25°	1991	1987	1984
30°	1982	1977	1972
35°	1969	1964	1957
40°	1952	1940	1937
45°	1927	1916	1910
50°	1891	1876	1871
55°	1846	1820	1817
60°	1769	1738	1738
65°	1655	1616	1621
70°	1489	1443	1439
75°	1250	1201	1195
80°	914	868	905
85°	517	475	483

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1927 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.5	3.4
10°-20°	404.7	9.7
20°-30°	617.0	14.8
30°-40°	747.5	17.9
40°-50°	776.5	18.6
50°-60°	694.6	16.6
60°-70°	506.3	12.1
70°-80°	250.7	6.0
80°-90°	44.8	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°	1162.1	27.8
0°-40°	1909.7	45.7
0°-60°	3380.8	80.8
0°-90°	4182.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4182.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1480	1480	1480	1480	1480	
5°	1477	1478	1477	1477	1476	141
15°	1434	1433	1433	1434	1433	405
25°	1341	1340	1339	1338	1336	618
35°	1199	1197	1196	1194	1192	750
45°	1013	1010	1007	1005	1004	780
55°	787	781	776	776	775	701
65°	520	516	508	510	509	515
75°	240	237	231	235	230	256
85°	34	31	31	31	31	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1479.9	1479.9	1479.9	1479.9	1479.9
2.5°	1479.9	1479.3	1479.3	1479.9	1478.8
5°	1477.2	1477.7	1477.2	1477.2	1476.2
7.5°	1471.4	1470.8	1470.3	1470.8	1469.3
10°	1461.3	1461.3	1460.8	1461.3	1460.2
12.5°	1449.1	1449.1	1449.1	1449.6	1449.1
15°	1433.7	1433.1	1433.1	1434.2	1433.1
17.5°	1415.6	1415.1	1415.1	1414.6	1413.5
20°	1393.3	1393.3	1392.8	1392.3	1390.7
22.5°	1369.4	1368.9	1367.3	1367.3	1365.2
25°	1341.3	1339.7	1338.6	1338.1	1336.5
27.5°	1310.5	1308.4	1306.8	1305.7	1304.1
30°	1276.0	1273.8	1272.3	1270.7	1269.6
32.5°	1238.8	1237.7	1235.1	1234.6	1232.4
35°	1199.0	1197.4	1195.8	1193.7	1191.5
37.5°	1156.5	1154.9	1151.2	1150.1	1148.5
40°	1111.4	1109.2	1104.5	1104.5	1102.9
42.5°	1063.0	1060.9	1057.7	1055.6	1054.5
45°	1012.6	1010.5	1006.8	1004.6	1003.6
47.5°	959.0	957.4	953.1	951.5	949.9
50°	903.2	901.1	896.3	895.3	893.7
52.5°	844.8	843.7	837.4	836.8	835.2
55°	786.9	781.1	775.8	775.8	774.7
57.5°	723.2	719.0	712.1	712.1	711.0
60°	657.4	653.7	645.7	646.7	645.7
62.5°	593.1	585.2	577.7	580.9	578.2
65°	519.8	515.6	507.6	509.8	509.2
67.5°	452.9	445.0	437.5	441.8	439.7
70°	378.6	374.3	366.9	371.2	365.9
72.5°	308.5	304.8	297.4	302.1	296.8
75°	240.5	236.8	231.0	235.2	229.9
77.5°	176.3	173.6	168.3	172.6	173.6
80°	117.9	114.7	112.0	115.8	116.8
82.5°	69.0	66.9	65.8	66.4	69.0
85°	33.5	30.8	30.8	31.3	31.3
87.5°	9.0	8.0	9.0	9.6	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)