

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: P974180

Luminaire Tested: FLR2-24-40-L835-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974180
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: FLR2-24-40-L835-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-40-L835-CP125
Ballast/Driver: -

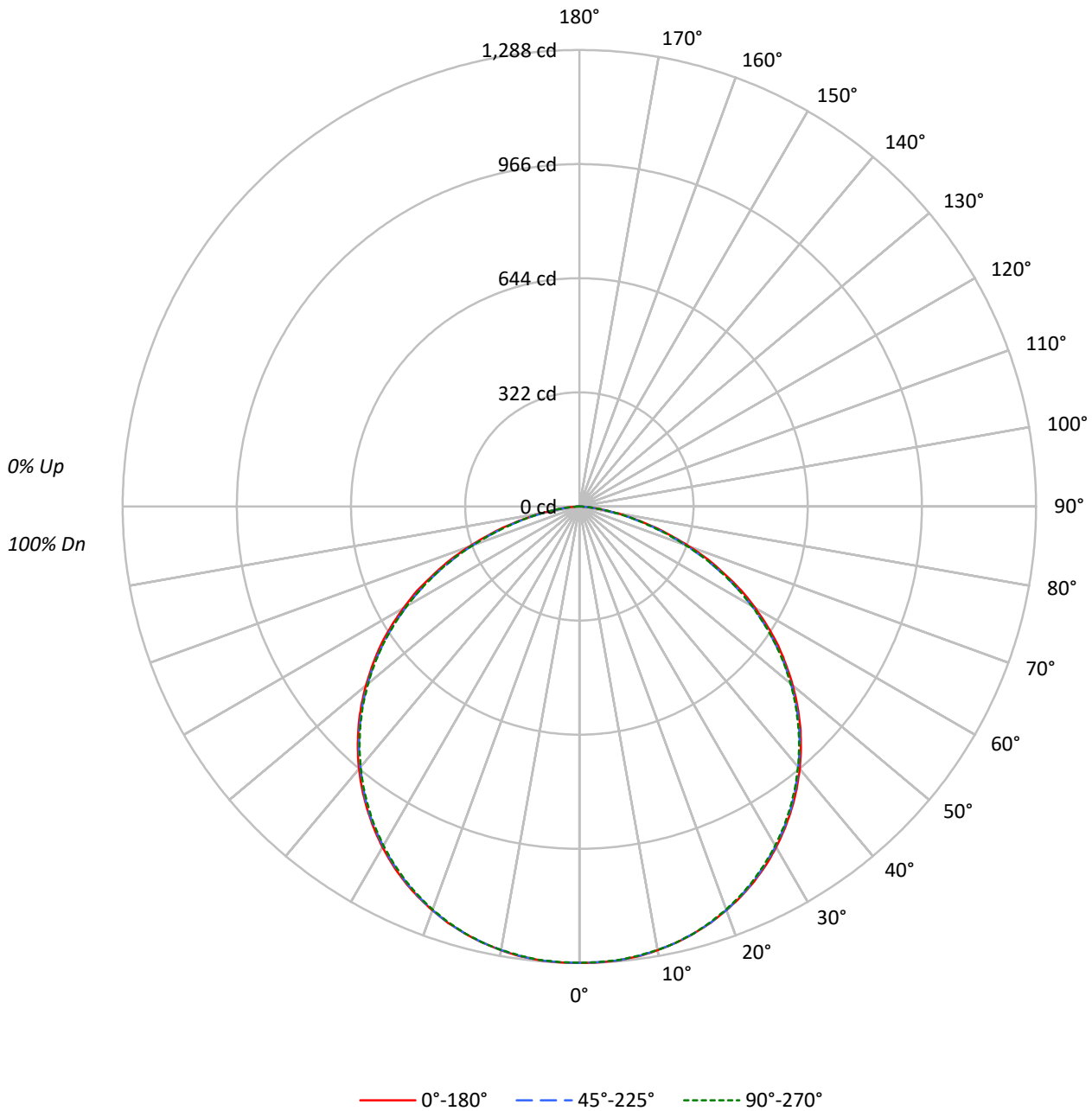
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3639.4 lumens
Efficiency: N/A
Efficacy: 120.1 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): 30.3
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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	1733	1733	1733
5°	1736	1736	1735
10°	1737	1736	1736
15°	1738	1737	1737
20°	1736	1735	1733
25°	1733	1729	1726
30°	1725	1720	1716
35°	1714	1709	1703
40°	1698	1688	1685
45°	1677	1667	1662
50°	1645	1632	1628
55°	1606	1583	1581
60°	1539	1512	1512
65°	1440	1406	1411
70°	1296	1256	1252
75°	1088	1045	1040
80°	795	755	787
85°	449	414	421

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1677 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.2	3.4
10°-20°	352.1	9.7
20°-30°	536.9	14.8
30°-40°	650.4	17.9
40°-50°	675.6	18.6
50°-60°	604.4	16.6
60°-70°	440.5	12.1
70°-80°	218.2	6.0
80°-90°	39.0	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°	1011.2	27.8
0°-40°	1661.6	45.7
0°-60°	2941.7	80.8
0°-90°	3639.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3639.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1288	1288	1288	1288	1288	
5°	1285	1286	1285	1285	1284	122
15°	1248	1247	1247	1248	1247	352
25°	1167	1166	1165	1164	1163	538
35°	1043	1042	1040	1039	1037	653
45°	881	879	876	874	873	679
55°	685	680	675	675	674	610
65°	452	449	442	444	443	448
75°	209	206	201	205	200	223
85°	29	27	27	27	27	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1287.7	1287.7	1287.7	1287.7	1287.7
2.5°	1287.7	1287.2	1287.2	1287.7	1286.7
5°	1285.4	1285.8	1285.4	1285.4	1284.4
7.5°	1280.3	1279.8	1279.4	1279.8	1278.4
10°	1271.5	1271.5	1271.0	1271.5	1270.6
12.5°	1260.9	1260.9	1260.9	1261.3	1260.9
15°	1247.5	1247.0	1247.0	1247.9	1247.0
17.5°	1231.8	1231.3	1231.3	1230.8	1229.9
20°	1212.4	1212.4	1211.9	1211.4	1210.0
22.5°	1191.6	1191.1	1189.7	1189.7	1187.9
25°	1167.1	1165.7	1164.8	1164.3	1162.9
27.5°	1140.3	1138.4	1137.0	1136.1	1134.7
30°	1110.3	1108.4	1107.0	1105.6	1104.7
32.5°	1077.9	1077.0	1074.7	1074.2	1072.4
35°	1043.3	1041.9	1040.5	1038.6	1036.8
37.5°	1006.3	1004.9	1001.7	1000.8	999.4
40°	967.0	965.2	961.0	961.0	959.6
42.5°	925.0	923.1	920.4	918.5	917.6
45°	881.1	879.2	876.0	874.2	873.2
47.5°	834.4	833.0	829.3	828.0	826.6
50°	785.9	784.1	779.9	779.0	777.6
52.5°	735.1	734.2	728.6	728.2	726.8
55°	684.7	679.6	675.0	675.0	674.1
57.5°	629.3	625.6	619.6	619.6	618.7
60°	572.0	568.8	561.8	562.7	561.8
62.5°	516.1	509.2	502.7	505.5	503.1
65°	452.3	448.6	441.7	443.5	443.1
67.5°	394.1	387.2	380.7	384.4	382.6
70°	329.4	325.7	319.3	323.0	318.3
72.5°	268.4	265.2	258.7	262.9	258.3
75°	209.3	206.1	201.0	204.7	200.1
77.5°	153.4	151.1	146.5	150.2	151.1
80°	102.6	99.8	97.5	100.7	101.6
82.5°	60.1	58.2	57.3	57.8	60.1
85°	29.1	26.8	26.8	27.3	27.3
87.5°	7.9	6.9	7.9	8.3	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)