

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: P974177

Luminaire Tested: FLR2-24-20-L835-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974177
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: FLR2-24-20-L835-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-20-L835-CP125
Ballast/Driver: -

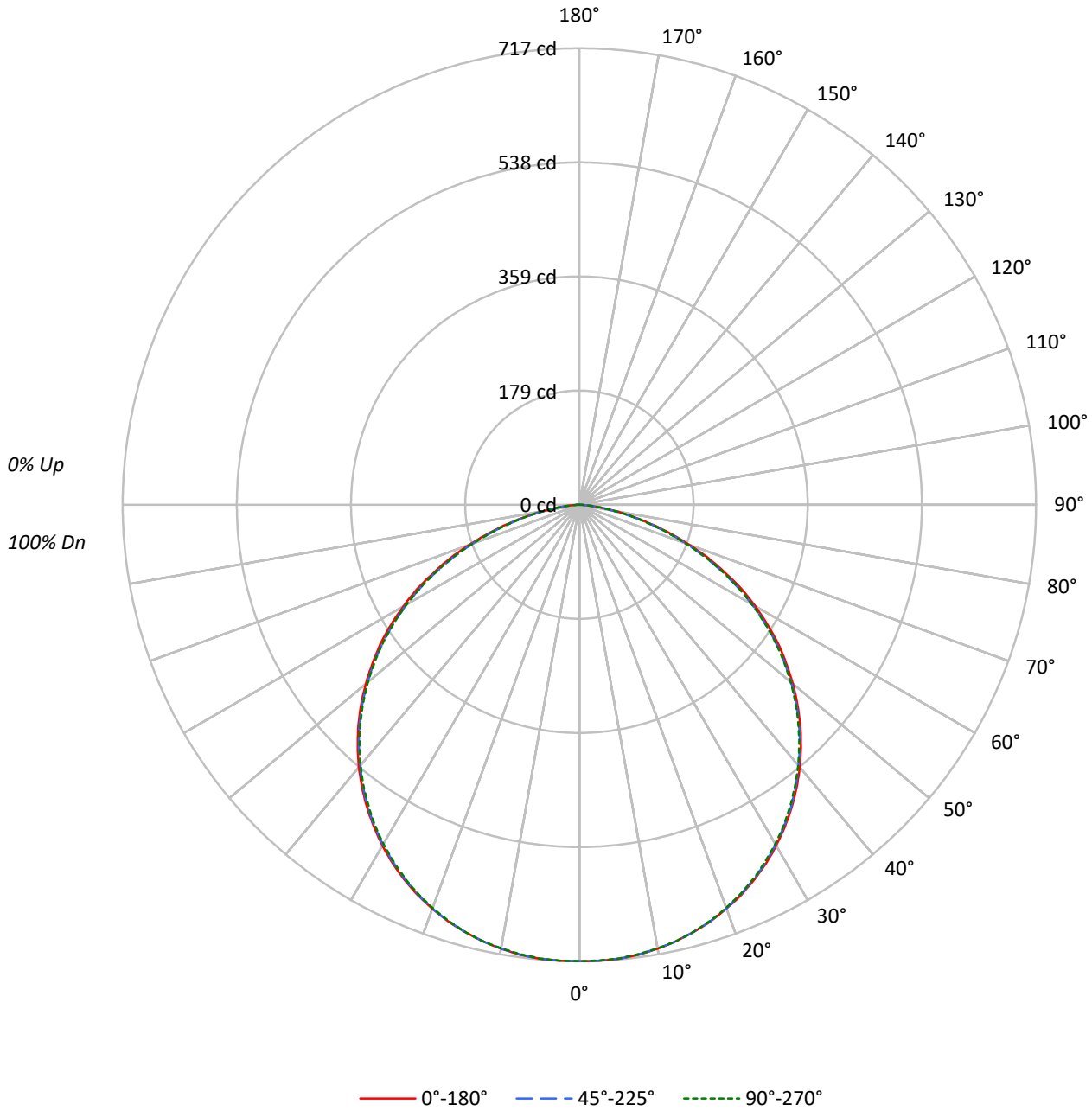
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2026.7 lumens
Efficiency: N/A
Efficacy: 121.4 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): 16.7
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°	965	965	965
5°	967	967	966
10°	967	967	967
15°	968	967	967
20°	967	966	965
25°	965	963	961
30°	961	958	956
35°	954	952	948
40°	946	940	939
45°	934	928	925
50°	916	909	906
55°	894	882	881
60°	857	842	842
65°	802	783	785
70°	722	699	697
75°	606	582	579
80°	442	421	439
85°	250	230	235

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 934 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	3.4
10°-20°	196.1	9.7
20°-30°	299.0	14.8
30°-40°	362.2	17.9
40°-50°	376.3	18.6
50°-60°	336.6	16.6
60°-70°	245.3	12.1
70°-80°	121.5	6.0
80°-90°	21.7	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°	563.1	27.8
0°-40°	925.3	45.7
0°-60°	1638.2	80.8
0°-90°	2026.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2026.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	717	717	717	717	717	
5°	716	716	716	716	715	68
15°	695	694	694	695	694	196
25°	650	649	649	648	648	300
35°	581	580	579	578	577	363
45°	491	490	488	487	486	378
55°	381	378	376	376	375	340
65°	252	250	246	247	247	250
75°	117	115	112	114	111	124
85°	16	15	15	15	15	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	717.1	717.1	717.1	717.1	717.1
2.5°	717.1	716.8	716.8	717.1	716.6
5°	715.8	716.1	715.8	715.8	715.3
7.5°	713.0	712.7	712.5	712.7	711.9
10°	708.1	708.1	707.8	708.1	707.6
12.5°	702.2	702.2	702.2	702.4	702.2
15°	694.7	694.4	694.4	695.0	694.4
17.5°	686.0	685.7	685.7	685.4	684.9
20°	675.2	675.2	674.9	674.6	673.9
22.5°	663.6	663.3	662.5	662.5	661.5
25°	649.9	649.2	648.6	648.4	647.6
27.5°	635.0	634.0	633.2	632.7	631.9
30°	618.3	617.3	616.5	615.7	615.2
32.5°	600.3	599.8	598.5	598.2	597.2
35°	581.0	580.2	579.4	578.4	577.4
37.5°	560.4	559.6	557.8	557.3	556.5
40°	538.5	537.5	535.2	535.2	534.4
42.5°	515.1	514.1	512.5	511.5	511.0
45°	490.7	489.6	487.8	486.8	486.3
47.5°	464.7	463.9	461.9	461.1	460.3
50°	437.7	436.6	434.3	433.8	433.0
52.5°	409.4	408.8	405.8	405.5	404.7
55°	381.3	378.5	375.9	375.9	375.4
57.5°	350.4	348.4	345.0	345.0	344.5
60°	318.5	316.7	312.9	313.4	312.9
62.5°	287.4	283.5	279.9	281.5	280.2
65°	251.9	249.8	246.0	247.0	246.7
67.5°	219.5	215.6	212.0	214.1	213.0
70°	183.5	181.4	177.8	179.9	177.3
72.5°	149.5	147.7	144.1	146.4	143.8
75°	116.6	114.8	111.9	114.0	111.4
77.5°	85.4	84.1	81.6	83.6	84.1
80°	57.1	55.6	54.3	56.1	56.6
82.5°	33.4	32.4	31.9	32.2	33.4
85°	16.2	14.9	14.9	15.2	15.2
87.5°	4.4	3.9	4.4	4.6	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)