

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: P973562

Luminaire Tested: FLR2-22-25-L835-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-25-L835-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

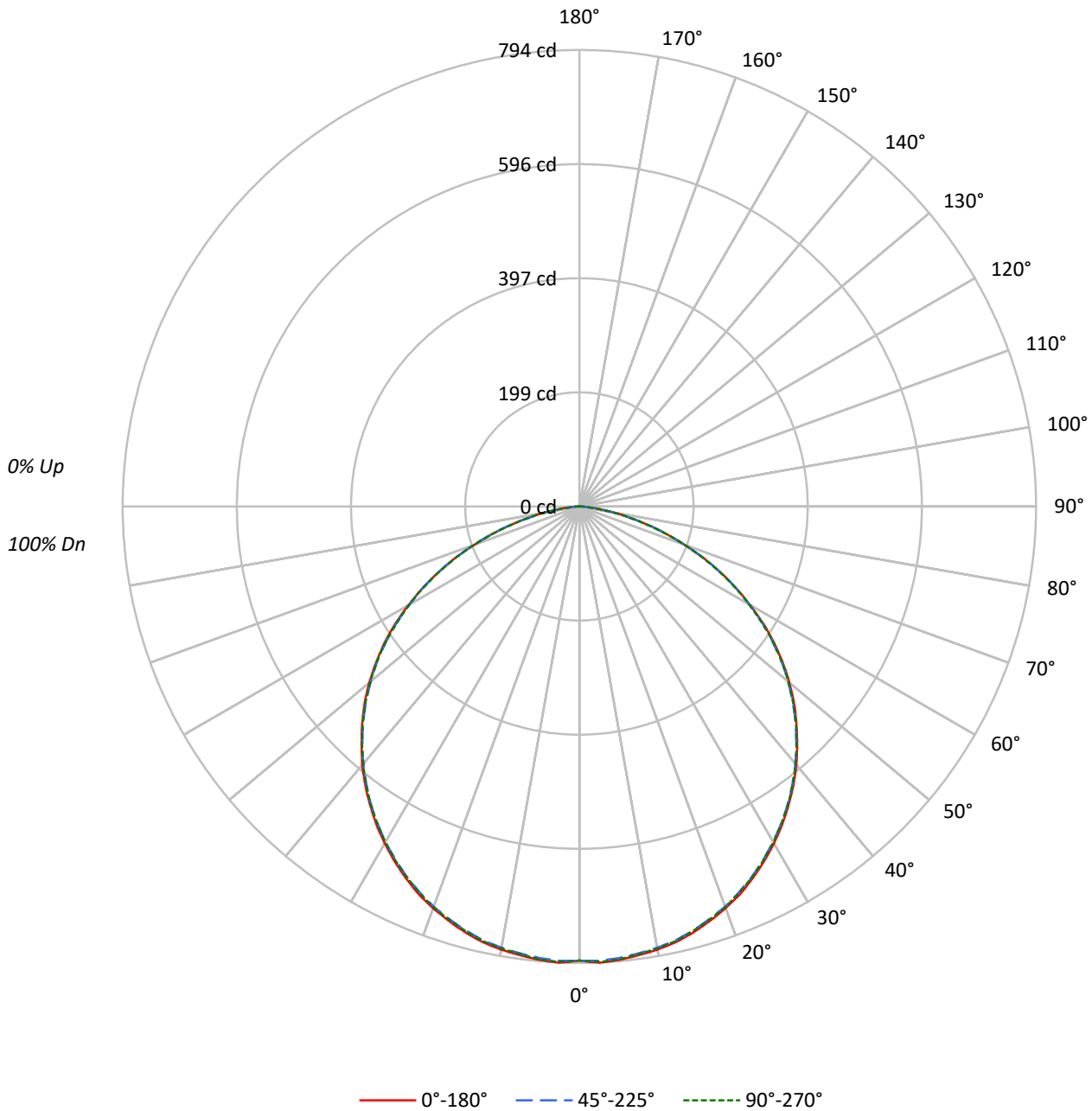
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2209.2 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 18.9
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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	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	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2126	2126	2126
5°	2139	2130	2136
10°	2139	2129	2133
15°	2137	2127	2130
20°	2129	2121	2124
25°	2118	2109	2111
30°	2103	2094	2095
35°	2084	2076	2077
40°	2062	2052	2054
45°	2031	2022	2026
50°	1996	1981	1986
55°	1939	1923	1930
60°	1843	1836	1836
65°	1721	1718	1712
70°	1524	1532	1528
75°	1283	1274	1263
80°	922	908	900
85°	482	482	466

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2031 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	3.4
10°-20°	215.1	9.7
20°-30°	326.9	14.8
30°-40°	395.1	17.9
40°-50°	410.1	18.6
50°-60°	366.7	16.6
60°-70°	266.6	12.1
70°-80°	131.1	5.9
80°-90°	22.7	1.0
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°	616.8	27.9
0°-40°	1012.0	45.8
0°-60°	1788.7	81.0
0°-90°	2209.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2209.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	790	790	790	790	790	
5°	792	783	788	786	791	75
15°	767	758	764	762	765	216
25°	713	706	710	709	711	329
35°	634	630	632	632	632	397
45°	534	531	531	532	532	412
55°	413	411	410	411	411	368
65°	270	271	270	270	269	267
75°	123	124	122	123	122	131
85°	16	16	16	16	15	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	790.0	790.0	790.0	790.0	790.0
2.5°	794.4	785.1	790.9	787.5	792.9
5°	791.9	782.7	788.5	785.6	790.9
7.5°	787.5	778.3	784.1	781.2	785.6
10°	782.7	772.9	779.2	776.3	780.7
12.5°	776.3	767.0	772.9	770.5	774.4
15°	767.0	758.3	763.6	761.7	764.6
17.5°	755.8	747.0	752.4	750.9	753.4
20°	743.6	735.3	740.7	739.2	741.7
22.5°	730.0	721.2	726.1	725.1	727.0
25°	713.4	705.6	710.4	709.0	710.9
27.5°	695.8	688.5	692.4	692.4	693.4
30°	676.8	669.9	673.8	673.8	674.3
32.5°	656.3	650.9	653.3	653.8	653.8
35°	634.3	629.9	631.9	632.4	632.4
37.5°	611.4	607.0	608.5	609.4	609.4
40°	587.0	583.1	584.1	585.0	584.6
42.5°	560.6	557.7	558.2	559.2	559.2
45°	533.8	531.4	531.4	532.3	532.3
47.5°	506.5	504.0	503.1	504.0	504.0
50°	476.7	474.3	473.3	474.3	474.3
52.5°	445.5	443.0	443.0	443.0	443.5
55°	413.3	410.8	409.9	410.8	411.3
57.5°	379.1	378.2	376.7	377.2	375.7
60°	342.5	342.5	341.1	342.0	341.1
62.5°	306.9	307.9	306.4	306.4	305.4
65°	270.3	271.3	269.8	269.8	268.9
67.5°	232.7	234.2	232.3	232.3	231.3
70°	193.7	196.6	194.7	195.2	194.2
72.5°	158.6	160.0	158.1	158.1	157.1
75°	123.4	124.4	122.5	123.0	121.5
77.5°	88.8	90.3	88.3	88.8	88.3
80°	59.5	60.0	58.6	59.0	58.1
82.5°	34.6	35.1	34.6	34.2	33.7
85°	15.6	16.1	15.6	15.6	15.1
87.5°	3.9	3.9	3.9	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)