

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: P973566

Luminaire Tested: FLR2-22-25-L835-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973566
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

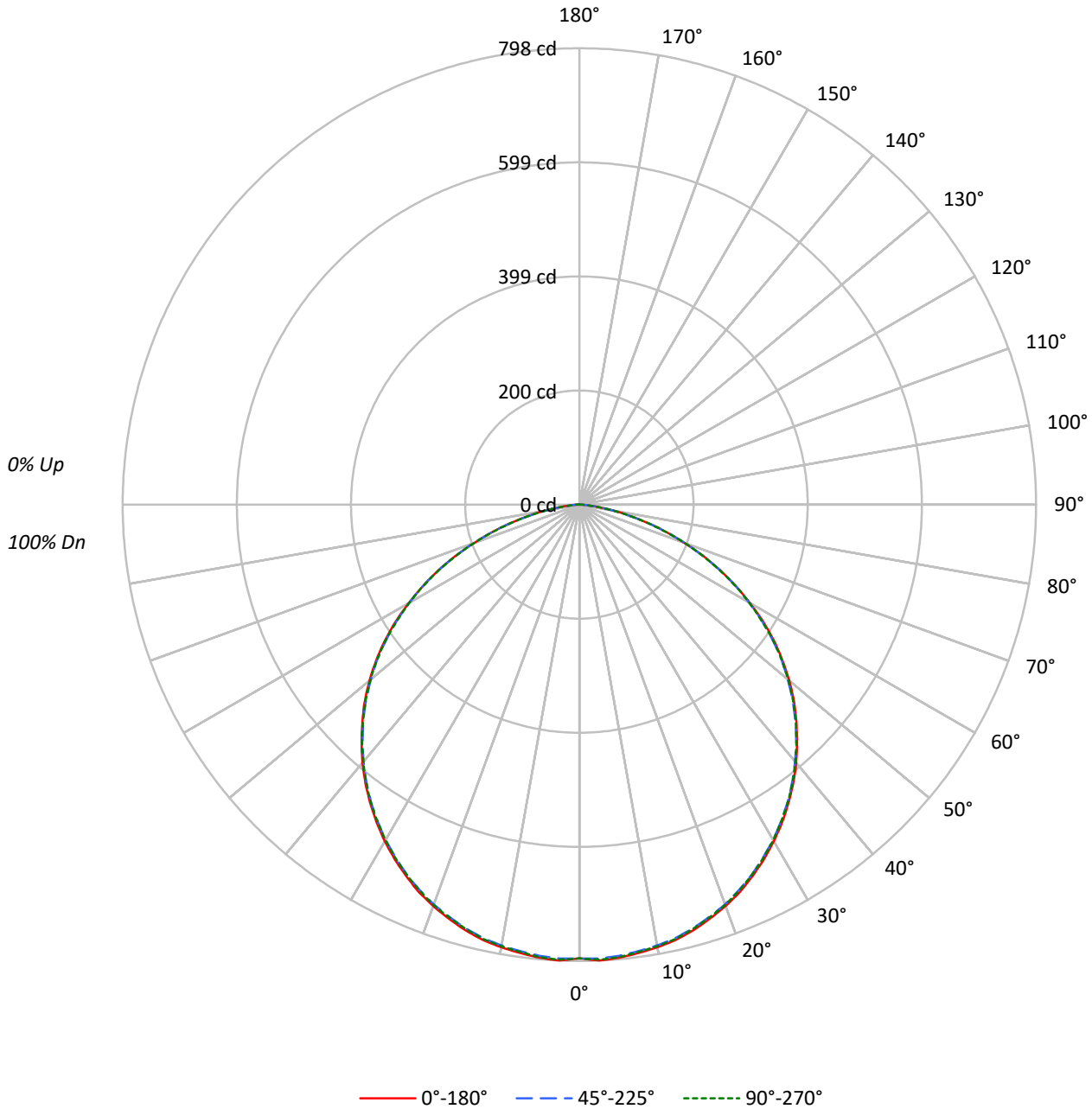
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2219.0 lumens
Efficiency: N/A
Efficacy: 117.4 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	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	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°	2135	2135	2135
5°	2149	2139	2146
10°	2148	2139	2143
15°	2146	2137	2140
20°	2139	2131	2133
25°	2127	2119	2120
30°	2112	2103	2105
35°	2093	2085	2087
40°	2071	2061	2062
45°	2041	2031	2035
50°	2004	1990	1994
55°	1947	1932	1939
60°	1851	1844	1844
65°	1729	1726	1719
70°	1531	1538	1535
75°	1289	1279	1268
80°	927	911	903
85°	485	485	469

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2041 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.1	3.4
10°-20°	216.1	9.7
20°-30°	328.4	14.8
30°-40°	396.9	17.9
40°-50°	412.0	18.6
50°-60°	368.3	16.6
60°-70°	267.8	12.1
70°-80°	131.7	5.9
80°-90°	22.8	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°	619.6	27.9
0°-40°	1016.4	45.8
0°-60°	1796.7	81.0
0°-90°	2219.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2219.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	794	794	794	794	794	
5°	795	786	792	789	794	76
15°	770	762	767	765	768	217
25°	716	709	714	712	714	330
35°	637	633	635	635	635	399
45°	536	534	534	535	535	414
55°	415	413	412	413	413	370
65°	272	272	271	271	270	268
75°	124	125	123	124	122	132
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°	793.5	793.5	793.5	793.5	793.5
2.5°	797.9	788.6	794.5	791.0	796.4
5°	795.4	786.1	792.0	789.1	794.5
7.5°	791.0	781.7	787.6	784.6	789.1
10°	786.1	776.3	782.7	779.7	784.2
12.5°	779.7	770.4	776.3	773.9	777.8
15°	770.4	761.6	767.0	765.0	768.0
17.5°	759.2	750.3	755.7	754.3	756.7
20°	746.9	738.6	744.0	742.5	745.0
22.5°	733.2	724.4	729.3	728.3	730.2
25°	716.5	708.7	713.6	712.1	714.1
27.5°	698.9	691.5	695.5	695.5	696.4
30°	679.8	672.9	676.8	676.8	677.3
32.5°	659.2	653.8	656.2	656.7	656.7
35°	637.1	632.7	634.7	635.2	635.2
37.5°	614.1	609.7	611.2	612.1	612.1
40°	589.6	585.7	586.6	587.6	587.1
42.5°	563.1	560.2	560.7	561.7	561.7
45°	536.2	533.7	533.7	534.7	534.7
47.5°	508.7	506.3	505.3	506.3	506.3
50°	478.8	476.4	475.4	476.4	476.4
52.5°	447.5	445.0	445.0	445.0	445.5
55°	415.1	412.7	411.7	412.7	413.2
57.5°	380.8	379.8	378.4	378.8	377.4
60°	344.0	344.0	342.6	343.6	342.6
62.5°	308.3	309.3	307.8	307.8	306.8
65°	271.5	272.5	271.0	271.0	270.0
67.5°	233.8	235.2	233.3	233.3	232.3
70°	194.6	197.5	195.5	196.0	195.1
72.5°	159.3	160.8	158.8	158.8	157.8
75°	124.0	125.0	123.0	123.5	122.0
77.5°	89.2	90.7	88.7	89.2	88.7
80°	59.8	60.3	58.8	59.3	58.3
82.5°	34.8	35.3	34.8	34.3	33.8
85°	15.7	16.2	15.7	15.7	15.2
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)