

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: P973574

Luminaire Tested: FLR2-22-25-L835-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973574
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-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

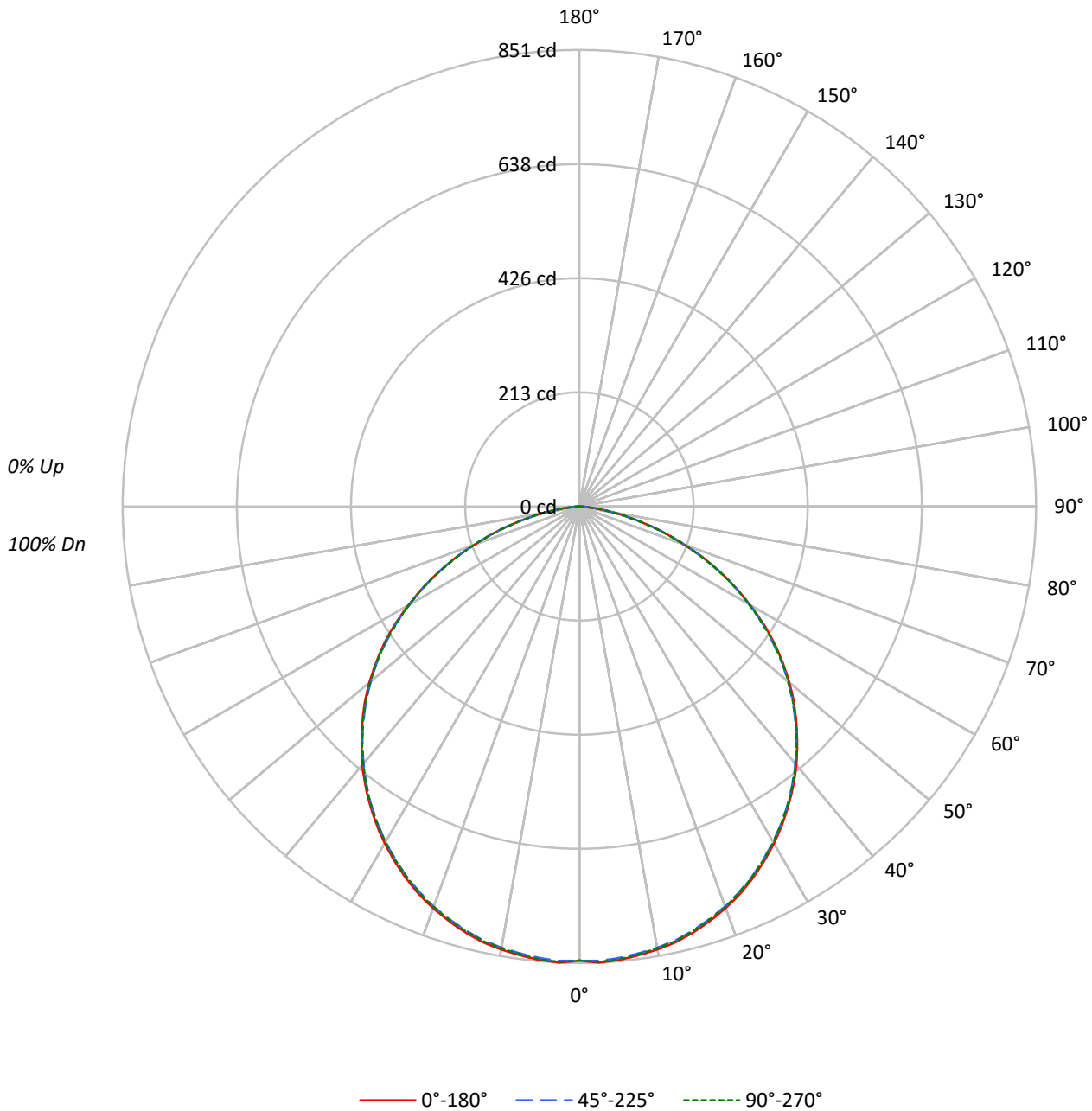
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2367.4 lumens
Efficiency: N/A
Efficacy: 125.3 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

TEST NUMBER: P973574
CATALOG NUMBER: FLR2-22-25-L835-CA080

Luminous Intensity Polar Plot





TEST NUMBER: P973574
 CATALOG NUMBER: FLR2-22-25-L835-CA080

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°	2278	2278	2278
5°	2293	2283	2290
10°	2292	2282	2286
15°	2290	2280	2283
20°	2282	2273	2276
25°	2270	2260	2262
30°	2254	2244	2245
35°	2233	2224	2226
40°	2210	2199	2200
45°	2177	2167	2171
50°	2139	2123	2128
55°	2078	2061	2068
60°	1976	1967	1967
65°	1845	1841	1834
70°	1633	1641	1637
75°	1376	1364	1354
80°	989	972	964
85°	516	516	500

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2177 cd/sqm



TEST NUMBER: P973574
 CATALOG NUMBER: FLR2-22-25-L835-CA080

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.2	3.4
10°-20°	230.5	9.7
20°-30°	350.3	14.8
30°-40°	423.4	17.9
40°-50°	439.5	18.6
50°-60°	392.9	16.6
60°-70°	285.7	12.1
70°-80°	140.5	5.9
80°-90°	24.4	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°	661.0	27.9
0°-40°	1084.5	45.8
0°-60°	1916.9	81.0
0°-90°	2367.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2367.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	847	847	847	847	847	
5°	849	839	845	842	848	81
15°	822	813	818	816	819	232
25°	764	756	761	760	762	352
35°	680	675	677	678	678	425
45°	572	569	569	570	570	441
55°	443	440	439	440	441	395
65°	290	291	289	289	288	286
75°	132	133	131	132	130	140
85°	17	17	17	17	16	24
90°	0	0	0	0	0	



TEST NUMBER: P973574
 CATALOG NUMBER: FLR2-22-25-L835-CA080

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	846.6	846.6	846.6	846.6	846.6
2.5°	851.3	841.3	847.6	843.9	849.7
5°	848.7	838.7	845.0	841.9	847.6
7.5°	843.9	834.0	840.3	837.1	841.9
10°	838.7	828.3	835.1	831.9	836.6
12.5°	831.9	822.0	828.3	825.6	829.8
15°	822.0	812.6	818.3	816.2	819.4
17.5°	810.0	800.5	806.3	804.7	807.3
20°	796.9	788.0	793.7	792.2	794.8
22.5°	782.2	772.8	778.1	777.0	779.1
25°	764.5	756.1	761.3	759.8	761.9
27.5°	745.6	737.8	742.0	742.0	743.0
30°	725.3	717.9	722.1	722.1	722.6
32.5°	703.3	697.5	700.2	700.7	700.7
35°	679.8	675.1	677.1	677.7	677.7
37.5°	655.2	650.5	652.0	653.1	653.1
40°	629.0	624.9	625.9	626.9	626.4
42.5°	600.8	597.7	598.2	599.2	599.2
45°	572.0	569.4	569.4	570.5	570.5
47.5°	542.8	540.1	539.1	540.1	540.1
50°	510.9	508.3	507.2	508.3	508.3
52.5°	477.4	474.8	474.8	474.8	475.3
55°	442.9	440.3	439.2	440.3	440.8
57.5°	406.3	405.2	403.7	404.2	402.6
60°	367.1	367.1	365.5	366.5	365.5
62.5°	328.9	329.9	328.4	328.4	327.3
65°	289.7	290.7	289.2	289.2	288.1
67.5°	249.4	251.0	248.9	248.9	247.9
70°	207.6	210.7	208.6	209.2	208.1
72.5°	169.9	171.5	169.4	169.4	168.4
75°	132.3	133.3	131.2	131.8	130.2
77.5°	95.2	96.7	94.6	95.2	94.6
80°	63.8	64.3	62.7	63.3	62.2
82.5°	37.1	37.6	37.1	36.6	36.1
85°	16.7	17.3	16.7	16.7	16.2
87.5°	4.2	4.2	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)