

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: P973554

Luminaire Tested: FLR2-22-25-L835-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973554
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-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

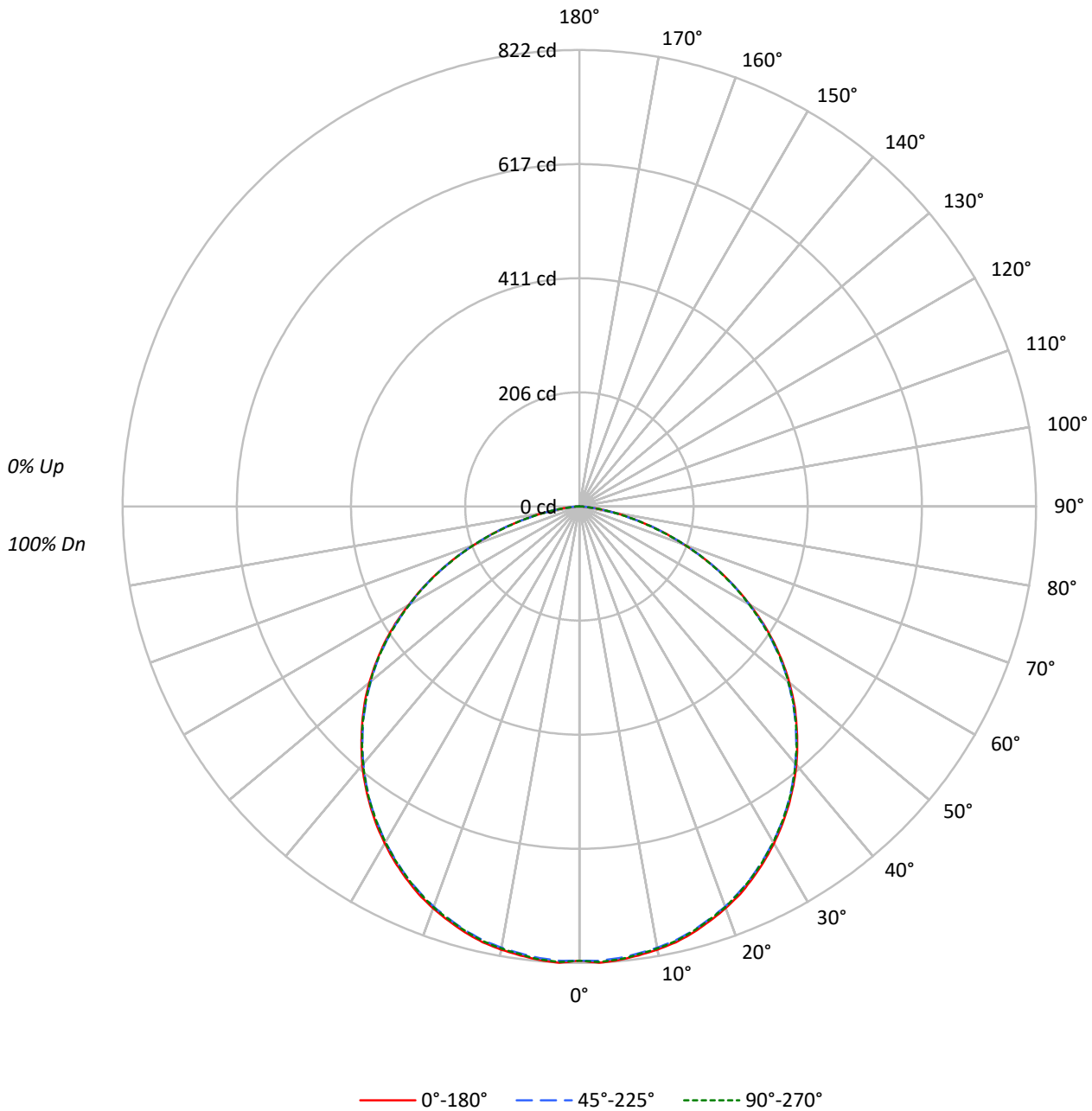
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2287.4 lumens
Efficiency: N/A
Efficacy: 121.0 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: P973554
CATALOG NUMBER: FLR2-22-25-L835-CP080

Luminous Intensity Polar Plot





TEST NUMBER: P973554
 CATALOG NUMBER: FLR2-22-25-L835-CP080

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	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						100													
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85						85													
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71						71													
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60						60													
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51						51													
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44						44													
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39						39													
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34						34													
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30						30													
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27						27													
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25						25													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2201	2201	2201
5°	2215	2205	2212
10°	2214	2205	2209
15°	2213	2203	2206
20°	2205	2196	2199
25°	2193	2184	2186
30°	2177	2168	2169
35°	2158	2149	2151
40°	2135	2124	2126
45°	2103	2094	2098
50°	2066	2052	2056
55°	2008	1991	1998
60°	1909	1900	1900
65°	1782	1779	1773
70°	1578	1586	1582
75°	1329	1318	1308
80°	955	939	931
85°	500	500	485

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2103 cd/sqm



TEST NUMBER: P973554
 CATALOG NUMBER: FLR2-22-25-L835-CP080

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.5	3.4
10°-20°	222.7	9.7
20°-30°	338.5	14.8
30°-40°	409.1	17.9
40°-50°	424.7	18.6
50°-60°	379.6	16.6
60°-70°	276.0	12.1
70°-80°	135.7	5.9
80°-90°	23.5	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°	638.7	27.9
0°-40°	1047.8	45.8
0°-60°	1852.1	81.0
0°-90°	2287.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2287.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	818	818	818	818	818	
5°	820	810	816	813	819	78
15°	794	785	791	789	792	224
25°	739	730	736	734	736	340
35°	657	652	654	655	655	411
45°	553	550	550	551	551	426
55°	428	425	424	425	426	381
65°	280	281	279	279	278	276
75°	128	129	127	127	126	136
85°	16	17	16	16	16	24
90°	0	0	0	0	0	



TEST NUMBER: P973554
 CATALOG NUMBER: FLR2-22-25-L835-CP080

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	817.9	817.9	817.9	817.9	817.9
2.5°	822.5	812.9	819.0	815.4	821.0
5°	820.0	810.4	816.4	813.4	819.0
7.5°	815.4	805.8	811.9	808.9	813.4
10°	810.4	800.3	806.8	803.8	808.3
12.5°	803.8	794.2	800.3	797.7	801.8
15°	794.2	785.1	790.7	788.6	791.7
17.5°	782.6	773.5	779.0	777.5	780.1
20°	770.0	761.4	766.9	765.4	767.9
22.5°	755.8	746.7	751.8	750.8	752.8
25°	738.6	730.5	735.6	734.1	736.1
27.5°	720.4	712.9	716.9	716.9	717.9
30°	700.7	693.7	697.7	697.7	698.2
32.5°	679.5	674.0	676.5	677.0	677.0
35°	656.8	652.2	654.3	654.8	654.8
37.5°	633.0	628.5	630.0	631.0	631.0
40°	607.8	603.7	604.7	605.8	605.3
42.5°	580.5	577.5	578.0	579.0	579.0
45°	552.7	550.2	550.2	551.2	551.2
47.5°	524.4	521.9	520.9	521.9	521.9
50°	493.6	491.1	490.1	491.1	491.1
52.5°	461.3	458.7	458.7	458.7	459.2
55°	427.9	425.4	424.4	425.4	425.9
57.5°	392.6	391.5	390.0	390.5	389.0
60°	354.7	354.7	353.1	354.2	353.1
62.5°	317.8	318.8	317.3	317.3	316.3
65°	279.9	280.9	279.4	279.4	278.4
67.5°	241.0	242.5	240.5	240.5	239.5
70°	200.6	203.6	201.6	202.1	201.1
72.5°	164.2	165.7	163.7	163.7	162.7
75°	127.8	128.8	126.8	127.3	125.8
77.5°	91.9	93.5	91.4	91.9	91.4
80°	61.6	62.1	60.6	61.1	60.1
82.5°	35.9	36.4	35.9	35.4	34.9
85°	16.2	16.7	16.2	16.2	15.7
87.5°	4.0	4.0	4.0	4.0	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)