

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: P973506

Luminaire Tested: FLR2-22-25-L830-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973506
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-L830-CP187
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 2
Light Source:
Ballast/Driver: -

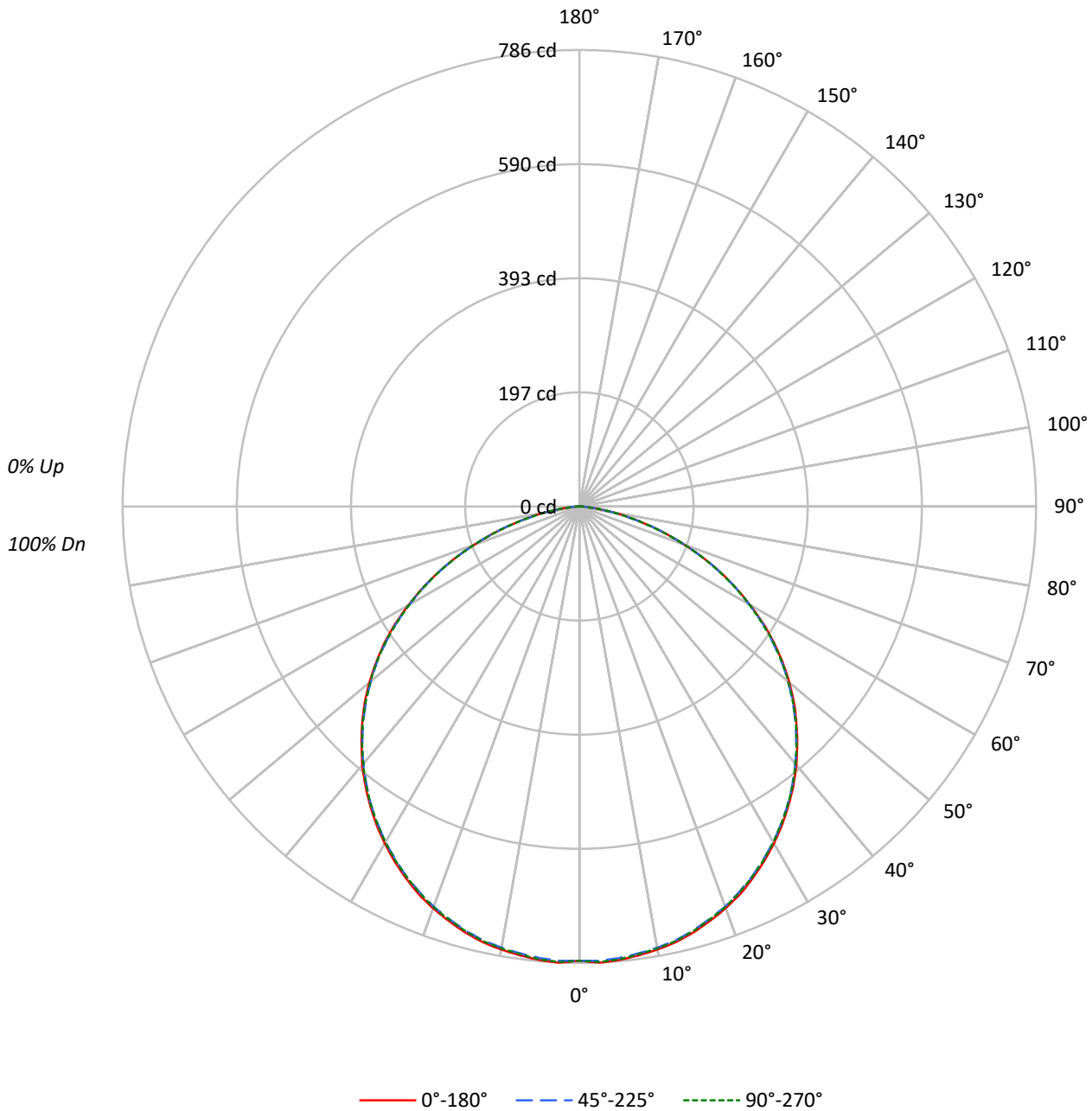
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2187.1 lumens
Efficiency: N/A
Efficacy: 115.7 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: P973506
CATALOG NUMBER: FLR2-22-25-L830-CP187

Luminous Intensity Polar Plot





TEST NUMBER: P973506
 CATALOG NUMBER: FLR2-22-25-L830-CP187

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	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°	2105	2105	2105
5°	2118	2109	2115
10°	2117	2108	2112
15°	2116	2106	2109
20°	2108	2100	2103
25°	2097	2088	2090
30°	2082	2073	2074
35°	2063	2055	2056
40°	2041	2031	2033
45°	2011	2002	2006
50°	1976	1962	1966
55°	1920	1904	1910
60°	1825	1817	1817
65°	1704	1701	1695
70°	1509	1516	1513
75°	1271	1260	1251
80°	913	899	891
85°	479	479	463

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2011 cd/sqm



TEST NUMBER: P973506
 CATALOG NUMBER: FLR2-22-25-L830-CP187

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	3.4
10°-20°	213.0	9.7
20°-30°	323.6	14.8
30°-40°	391.2	17.9
40°-50°	406.0	18.6
50°-60°	363.0	16.6
60°-70°	263.9	12.1
70°-80°	129.8	5.9
80°-90°	22.5	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°	610.7	27.9
0°-40°	1001.8	45.8
0°-60°	1770.9	81.0
0°-90°	2187.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2187.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	782	782	782	782	782	
5°	784	775	781	778	783	75
15°	759	751	756	754	757	214
25°	706	698	703	702	704	326
35°	628	624	626	626	626	393
45°	528	526	526	527	527	408
55°	409	407	406	407	407	365
65°	268	269	267	267	266	264
75°	122	123	121	122	120	130
85°	16	16	16	16	15	23
90°	0	0	0	0	0	



TEST NUMBER: P973506
 CATALOG NUMBER: FLR2-22-25-L830-CP187

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	782.1	782.1	782.1	782.1	782.1
2.5°	786.4	777.2	783.0	779.7	785.0
5°	784.0	774.8	780.6	777.7	783.0
7.5°	779.7	770.5	776.3	773.4	777.7
10°	774.8	765.2	771.4	768.5	772.9
12.5°	768.5	759.4	765.2	762.8	766.6
15°	759.4	750.7	756.0	754.1	757.0
17.5°	748.3	739.6	744.9	743.4	745.8
20°	736.2	728.0	733.3	731.8	734.2
22.5°	722.7	714.0	718.8	717.8	719.8
25°	706.2	698.5	703.3	701.9	703.8
27.5°	688.8	681.6	685.5	685.5	686.4
30°	670.0	663.2	667.1	667.1	667.6
32.5°	649.7	644.4	646.8	647.3	647.3
35°	628.0	623.6	625.6	626.0	626.0
37.5°	605.3	600.9	602.4	603.3	603.3
40°	581.1	577.3	578.2	579.2	578.7
42.5°	555.0	552.1	552.6	553.6	553.6
45°	528.5	526.1	526.1	527.0	527.0
47.5°	501.4	499.0	498.0	499.0	499.0
50°	471.9	469.5	468.6	469.5	469.5
52.5°	441.0	438.6	438.6	438.6	439.1
55°	409.2	406.7	405.8	406.7	407.2
57.5°	375.3	374.4	372.9	373.4	372.0
60°	339.1	339.1	337.7	338.6	337.7
62.5°	303.8	304.8	303.4	303.4	302.4
65°	267.6	268.6	267.1	267.1	266.2
67.5°	230.4	231.9	229.9	229.9	229.0
70°	191.8	194.7	192.7	193.2	192.3
72.5°	157.0	158.4	156.5	156.5	155.5
75°	122.2	123.2	121.2	121.7	120.3
77.5°	87.9	89.4	87.4	87.9	87.4
80°	58.9	59.4	58.0	58.5	57.5
82.5°	34.3	34.8	34.3	33.8	33.3
85°	15.5	15.9	15.5	15.5	15.0
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)