

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: P973514

Luminaire Tested: FLR2-22-25-L830-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973514
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-CP375
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 3
Light Source:
Ballast/Driver: -

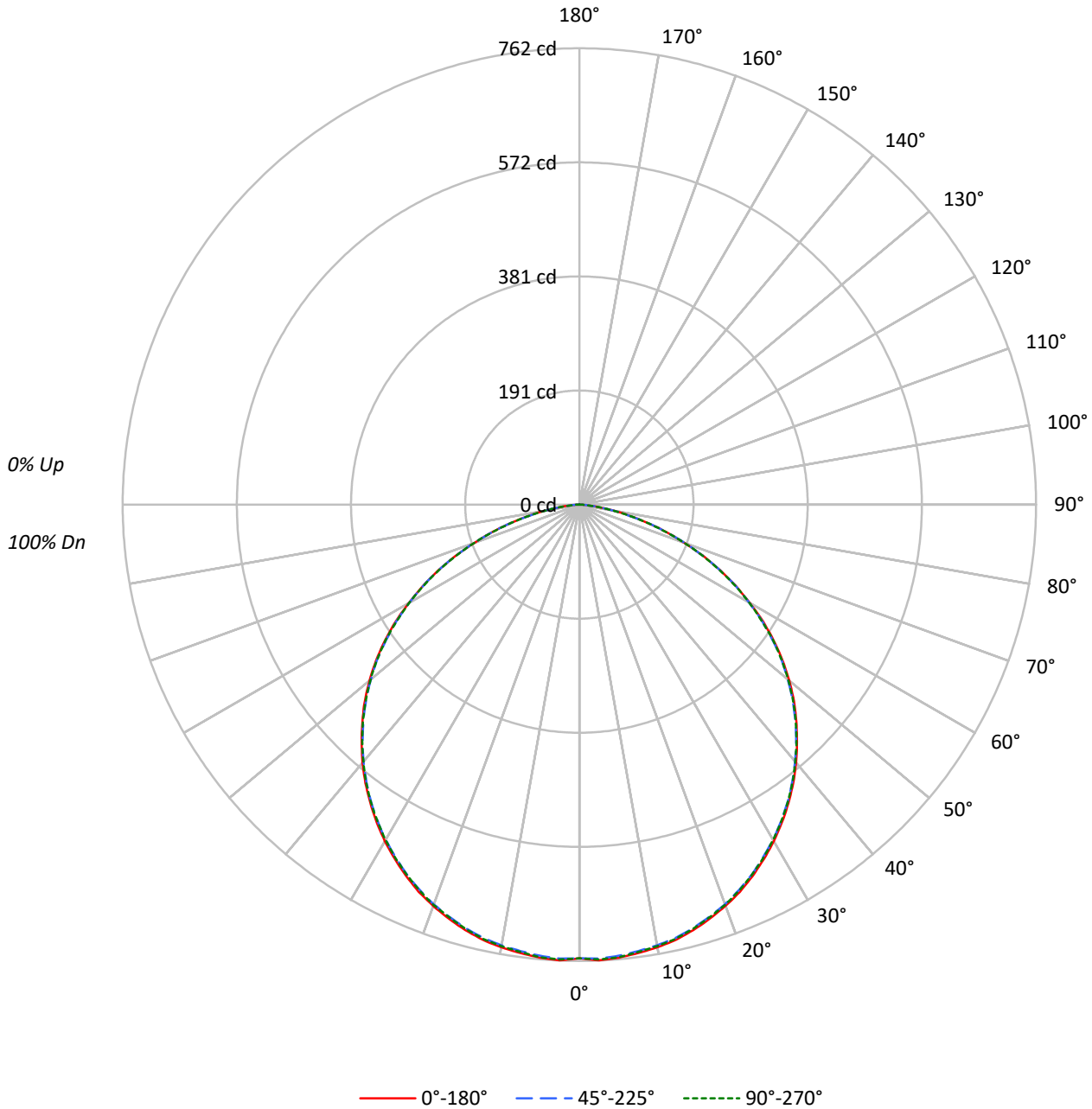
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2118.5 lumens
Efficiency: N/A
Efficacy: 112.1 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: P973514
CATALOG NUMBER: FLR2-22-25-L830-CP375

Luminous Intensity Polar Plot



TEST NUMBER: P973514
 CATALOG NUMBER: FLR2-22-25-L830-CP375

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2038	2038	2038
5°	2051	2042	2049
10°	2051	2042	2046
15°	2049	2040	2043
20°	2042	2034	2037
25°	2031	2023	2024
30°	2017	2008	2009
35°	1998	1990	1992
40°	1977	1968	1969
45°	1948	1939	1943
50°	1914	1900	1904
55°	1859	1844	1850
60°	1768	1760	1760
65°	1650	1647	1642
70°	1462	1469	1465
75°	1231	1221	1211
80°	885	869	863
85°	463	463	448

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1948 cd/sqm



TEST NUMBER: P973514
 CATALOG NUMBER: FLR2-22-25-L830-CP375

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	3.4
10°-20°	206.3	9.7
20°-30°	313.5	14.8
30°-40°	378.9	17.9
40°-50°	393.3	18.6
50°-60°	351.6	16.6
60°-70°	255.6	12.1
70°-80°	125.7	5.9
80°-90°	21.8	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°	591.5	27.9
0°-40°	970.4	45.8
0°-60°	1715.3	81.0
0°-90°	2118.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2118.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	758	758	758	758	758	
5°	759	750	756	753	758	72
15°	736	727	732	730	733	208
25°	684	677	681	680	682	315
35°	608	604	606	606	606	381
45°	512	510	510	510	510	395
55°	396	394	393	394	394	353
65°	259	260	259	259	258	256
75°	118	119	117	118	116	126
85°	15	15	15	15	14	22
90°	0	0	0	0	0	



TEST NUMBER: P973514
 CATALOG NUMBER: FLR2-22-25-L830-CP375

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	757.5	757.5	757.5	757.5	757.5
2.5°	761.7	752.8	758.5	755.2	760.3
5°	759.4	750.5	756.1	753.3	758.5
7.5°	755.2	746.3	751.9	749.1	753.3
10°	750.5	741.1	747.2	744.4	748.6
12.5°	744.4	735.5	741.1	738.8	742.6
15°	735.5	727.1	732.3	730.4	733.2
17.5°	724.8	716.3	721.5	720.1	722.4
20°	713.1	705.1	710.3	708.9	711.2
22.5°	700.0	691.6	696.2	695.3	697.2
25°	684.1	676.6	681.3	679.9	681.7
27.5°	667.2	660.2	663.9	663.9	664.9
30°	649.0	642.4	646.2	646.2	646.6
32.5°	629.3	624.2	626.5	627.0	627.0
35°	608.3	604.1	605.9	606.4	606.4
37.5°	586.3	582.1	583.5	584.4	584.4
40°	562.9	559.1	560.1	561.0	560.5
42.5°	537.6	534.8	535.3	536.2	536.2
45°	511.9	509.5	509.5	510.5	510.5
47.5°	485.7	483.3	482.4	483.3	483.3
50°	457.1	454.8	453.9	454.8	454.8
52.5°	427.2	424.9	424.9	424.9	425.3
55°	396.3	394.0	393.0	394.0	394.4
57.5°	363.6	362.6	361.2	361.7	360.3
60°	328.5	328.5	327.1	328.0	327.1
62.5°	294.3	295.2	293.8	293.8	292.9
65°	259.2	260.2	258.7	258.7	257.8
67.5°	223.2	224.6	222.7	222.7	221.8
70°	185.8	188.6	186.7	187.2	186.2
72.5°	152.1	153.5	151.6	151.6	150.7
75°	118.4	119.3	117.4	117.9	116.5
77.5°	85.2	86.6	84.7	85.2	84.7
80°	57.1	57.6	56.1	56.6	55.7
82.5°	33.2	33.7	33.2	32.8	32.3
85°	15.0	15.4	15.0	15.0	14.5
87.5°	3.7	3.7	3.7	3.7	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)