

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: P973510

Luminaire Tested: FLR2-22-25-L830-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973510
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-CP250
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 3
Light Source:
Ballast/Driver: -

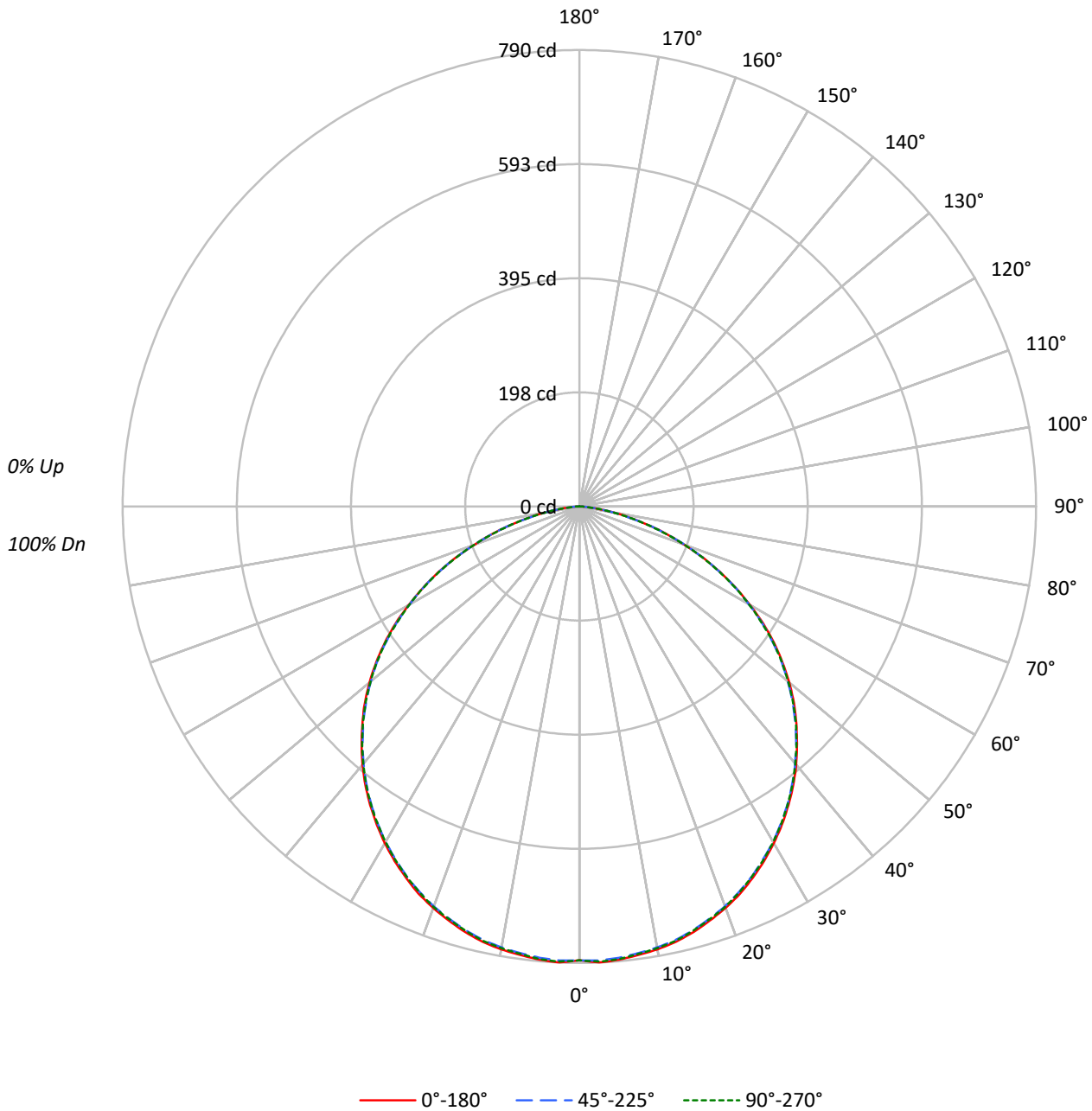
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2196.8 lumens
Efficiency: N/A
Efficacy: 116.2 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°	2114	2114	2114
5°	2127	2118	2125
10°	2127	2117	2121
15°	2125	2115	2118
20°	2117	2109	2112
25°	2106	2097	2099
30°	2091	2082	2083
35°	2072	2064	2066
40°	2050	2040	2042
45°	2020	2011	2015
50°	1984	1970	1974
55°	1928	1912	1919
60°	1833	1826	1826
65°	1712	1708	1702
70°	1515	1523	1519
75°	1277	1266	1256
80°	917	902	894
85°	479	479	463

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2020 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.4	3.4
10°-20°	213.9	9.7
20°-30°	325.1	14.8
30°-40°	392.9	17.9
40°-50°	407.8	18.6
50°-60°	364.6	16.6
60°-70°	265.1	12.1
70°-80°	130.4	5.9
80°-90°	22.6	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°	613.4	27.9
0°-40°	1006.3	45.8
0°-60°	1778.7	81.0
0°-90°	2196.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2196.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	786	786	786	786	786	
5°	788	778	784	781	786	75
15°	763	754	759	757	760	215
25°	709	702	706	705	707	327
35°	631	626	628	629	629	395
45°	531	528	528	529	529	409
55°	411	408	408	408	409	366
65°	269	270	268	268	267	265
75°	123	124	122	122	121	130
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°	785.5	785.5	785.5	785.5	785.5
2.5°	789.9	780.7	786.5	783.1	788.4
5°	787.5	778.3	784.1	781.2	786.5
7.5°	783.1	773.9	779.7	776.8	781.2
10°	778.3	768.6	774.9	772.0	776.3
12.5°	772.0	762.7	768.6	766.1	770.0
15°	762.7	754.0	759.3	757.4	760.3
17.5°	751.6	742.8	748.2	746.7	749.1
20°	739.4	731.2	736.5	735.1	737.5
22.5°	725.9	717.1	722.0	721.0	722.9
25°	709.4	701.6	706.4	705.0	706.9
27.5°	691.9	684.6	688.5	688.5	689.5
30°	673.0	666.2	670.1	670.1	670.5
32.5°	652.6	647.3	649.7	650.2	650.2
35°	630.8	626.4	628.3	628.8	628.8
37.5°	608.0	603.6	605.0	606.0	606.0
40°	583.7	579.8	580.8	581.8	581.3
42.5°	557.5	554.6	555.1	556.0	556.0
45°	530.8	528.4	528.4	529.4	529.4
47.5°	503.6	501.2	500.2	501.2	501.2
50°	474.0	471.6	470.6	471.6	471.6
52.5°	443.0	440.6	440.6	440.6	441.0
55°	411.0	408.5	407.6	408.5	409.0
57.5°	377.0	376.0	374.6	375.1	373.6
60°	340.6	340.6	339.2	340.1	339.2
62.5°	305.2	306.2	304.7	304.7	303.7
65°	268.8	269.8	268.3	268.3	267.3
67.5°	231.4	232.9	231.0	231.0	230.0
70°	192.6	195.5	193.6	194.1	193.1
72.5°	157.7	159.1	157.2	157.2	156.2
75°	122.8	123.7	121.8	122.3	120.8
77.5°	88.3	89.8	87.8	88.3	87.8
80°	59.2	59.7	58.2	58.7	57.7
82.5°	34.4	34.9	34.4	34.0	33.5
85°	15.5	16.0	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)