

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: P974065

Luminaire Tested: FLR2-24-20-L830-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-20-L830-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-20-L830-CP125
Ballast/Driver: -

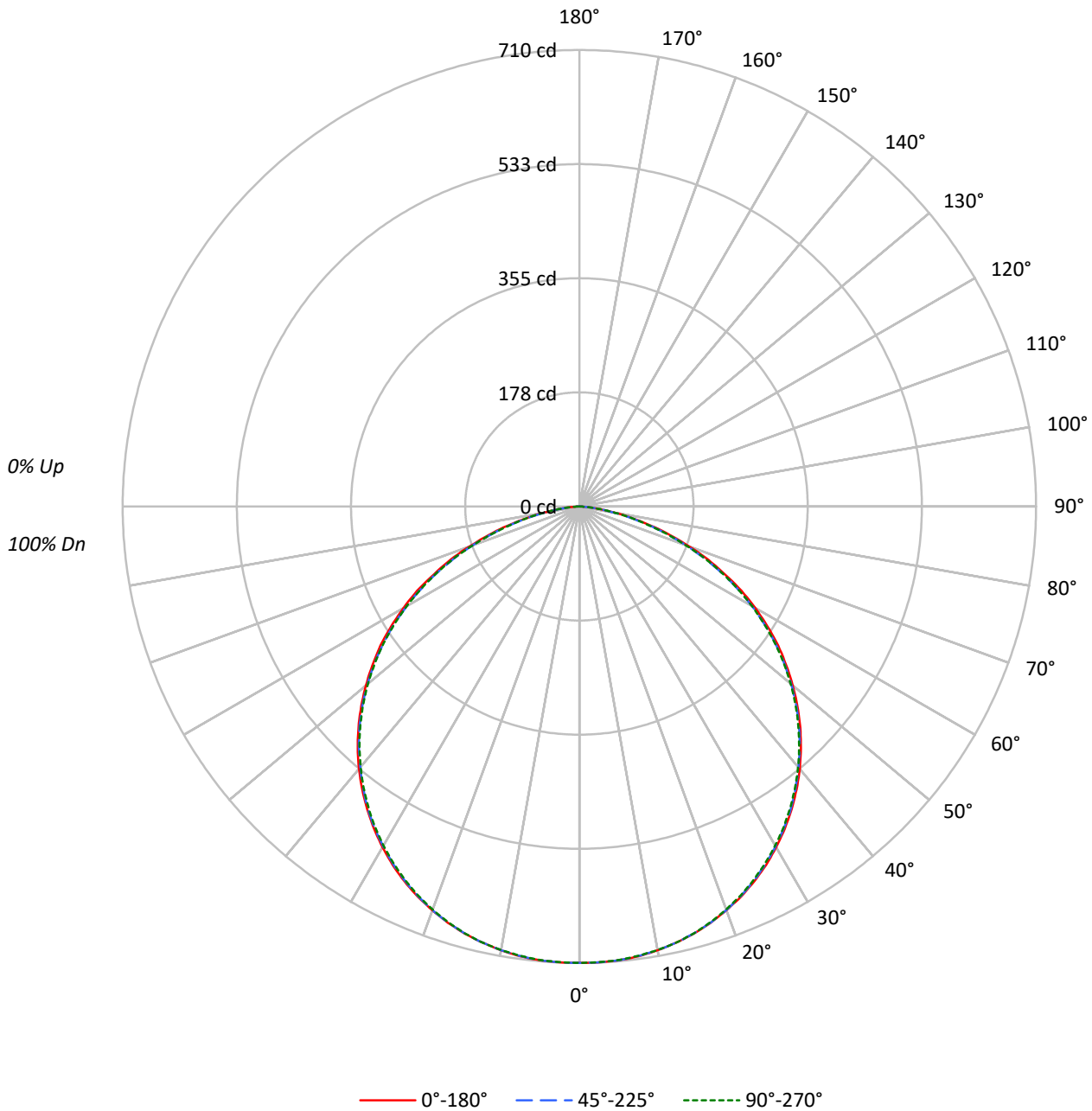
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2006.4 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16.7
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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	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	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	955	955	955
5°	957	957	956
10°	958	957	957
15°	958	958	958
20°	957	957	955
25°	955	953	952
30°	951	948	946
35°	945	942	939
40°	936	931	929
45°	924	919	916
50°	907	900	897
55°	886	873	872
60°	849	833	833
65°	794	775	778
70°	714	692	690
75°	600	576	573
80°	438	416	434
85°	247	228	232

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 924 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	3.4
10°-20°	194.1	9.7
20°-30°	296.0	14.8
30°-40°	358.6	17.9
40°-50°	372.5	18.6
50°-60°	333.2	16.6
60°-70°	242.9	12.1
70°-80°	120.3	6.0
80°-90°	21.5	1.1
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°	557.5	27.8
0°-40°	916.1	45.7
0°-60°	1621.8	80.8
0°-90°	2006.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2006.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	710	710	710	710	710	
5°	709	709	709	709	708	67
15°	688	688	688	688	688	194
25°	643	643	642	642	641	297
35°	575	574	574	573	572	360
45°	486	485	483	482	481	374
55°	378	375	372	372	372	336
65°	249	247	244	244	244	247
75°	115	114	111	113	110	123
85°	16	15	15	15	15	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	709.9	709.9	709.9	709.9	709.9
2.5°	709.9	709.7	709.7	709.9	709.4
5°	708.6	708.9	708.6	708.6	708.1
7.5°	705.8	705.6	705.3	705.6	704.8
10°	701.0	701.0	700.8	701.0	700.5
12.5°	695.1	695.1	695.1	695.4	695.1
15°	687.8	687.5	687.5	688.0	687.5
17.5°	679.1	678.8	678.8	678.6	678.1
20°	668.4	668.4	668.1	667.9	667.1
22.5°	656.9	656.7	655.9	655.9	654.9
25°	643.4	642.7	642.2	641.9	641.1
27.5°	628.7	627.6	626.9	626.4	625.6
30°	612.1	611.1	610.3	609.6	609.0
32.5°	594.3	593.8	592.5	592.2	591.2
35°	575.2	574.4	573.6	572.6	571.6
37.5°	554.8	554.0	552.2	551.7	551.0
40°	533.1	532.1	529.8	529.8	529.1
42.5°	510.0	508.9	507.4	506.4	505.9
45°	485.8	484.7	483.0	481.9	481.4
47.5°	460.0	459.3	457.2	456.5	455.7
50°	433.3	432.3	430.0	429.5	428.7
52.5°	405.3	404.8	401.7	401.4	400.7
55°	377.5	374.7	372.2	372.2	371.6
57.5°	346.9	344.9	341.6	341.6	341.1
60°	315.4	313.6	309.7	310.3	309.7
62.5°	284.5	280.7	277.1	278.7	277.4
65°	249.4	247.3	243.5	244.5	244.3
67.5°	217.3	213.5	209.9	211.9	210.9
70°	181.6	179.6	176.0	178.1	175.5
72.5°	148.0	146.2	142.6	144.9	142.4
75°	115.4	113.6	110.8	112.8	110.3
77.5°	84.6	83.3	80.7	82.8	83.3
80°	56.5	55.0	53.7	55.5	56.0
82.5°	33.1	32.1	31.6	31.8	33.1
85°	16.0	14.8	14.8	15.0	15.0
87.5°	4.3	3.8	4.3	4.6	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)