

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: P973513

Luminaire Tested: FLR2-22-20-L830-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973513
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: FLR2-22-20-L830-CP375
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 3
Light Source:
Ballast/Driver: -

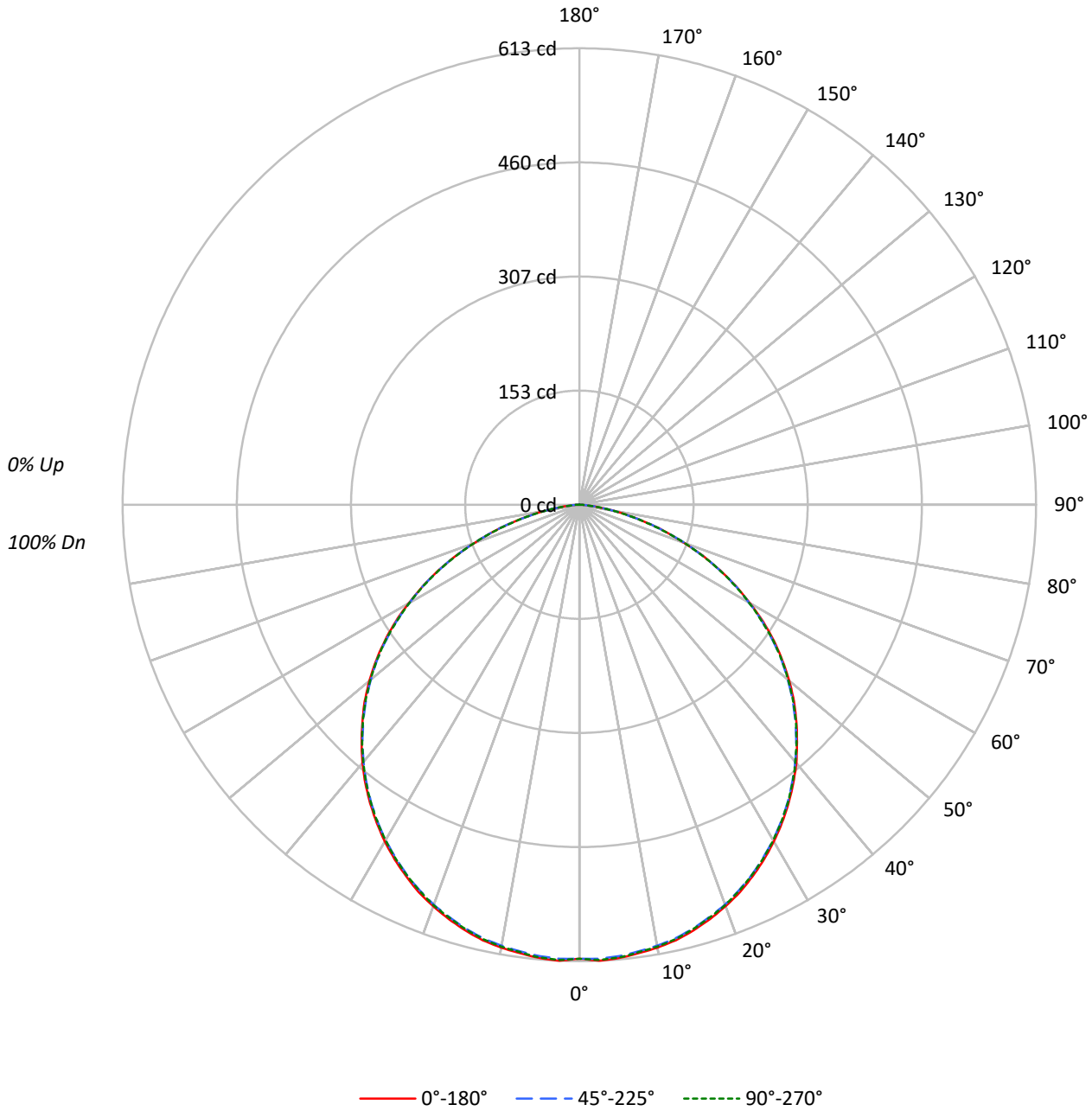
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1704.8 lumens
Efficiency: N/A
Efficacy: 112.9 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): 15.1
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										
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°	1640	1640	1640
5°	1651	1644	1649
10°	1650	1643	1646
15°	1649	1642	1644
20°	1643	1637	1639
25°	1635	1628	1629
30°	1623	1616	1617
35°	1608	1602	1603
40°	1591	1583	1585
45°	1568	1560	1563
50°	1540	1529	1532
55°	1496	1484	1489
60°	1422	1417	1417
65°	1328	1326	1321
70°	1176	1182	1179
75°	991	983	975
80°	711	700	694
85°	371	371	361

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1568 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.7	3.4
10°-20°	166.0	9.7
20°-30°	252.3	14.8
30°-40°	304.9	17.9
40°-50°	316.5	18.6
50°-60°	282.9	16.6
60°-70°	205.7	12.1
70°-80°	101.2	5.9
80°-90°	17.5	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°	476.0	27.9
0°-40°	780.9	45.8
0°-60°	1380.4	81.0
0°-90°	1704.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1704.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	610	610	610	610	610	
5°	611	604	608	606	610	58
15°	592	585	589	588	590	167
25°	550	544	548	547	549	254
35°	490	486	488	488	488	306
45°	412	410	410	411	411	318
55°	319	317	316	317	317	284
65°	209	209	208	208	208	206
75°	95	96	94	95	94	101
85°	12	12	12	12	12	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	609.6	609.6	609.6	609.6	609.6
2.5°	613.0	605.8	610.4	607.7	611.9
5°	611.1	604.0	608.5	606.2	610.4
7.5°	607.7	600.6	605.1	602.8	606.2
10°	604.0	596.4	601.3	599.1	602.5
12.5°	599.1	591.9	596.4	594.5	597.6
15°	591.9	585.1	589.3	587.8	590.0
17.5°	583.3	576.5	580.6	579.5	581.4
20°	573.8	567.4	571.6	570.4	572.3
22.5°	563.3	556.5	560.3	559.5	561.0
25°	550.5	544.5	548.2	547.1	548.6
27.5°	536.9	531.3	534.3	534.3	535.1
30°	522.3	517.0	520.0	520.0	520.4
32.5°	506.4	502.3	504.2	504.6	504.6
35°	489.5	486.1	487.6	488.0	488.0
37.5°	471.8	468.4	469.5	470.3	470.3
40°	453.0	450.0	450.7	451.5	451.1
42.5°	432.6	430.4	430.8	431.5	431.5
45°	411.9	410.0	410.0	410.8	410.8
47.5°	390.8	389.0	388.2	389.0	389.0
50°	367.9	366.0	365.2	366.0	366.0
52.5°	343.8	341.9	341.9	341.9	342.3
55°	318.9	317.0	316.3	317.0	317.4
57.5°	292.6	291.8	290.7	291.1	289.9
60°	264.3	264.3	263.2	263.9	263.2
62.5°	236.8	237.6	236.5	236.5	235.7
65°	208.6	209.4	208.2	208.2	207.5
67.5°	179.6	180.7	179.2	179.2	178.5
70°	149.5	151.7	150.2	150.6	149.9
72.5°	122.4	123.5	122.0	122.0	121.2
75°	95.3	96.0	94.5	94.9	93.8
77.5°	68.5	69.7	68.2	68.5	68.2
80°	45.9	46.3	45.2	45.6	44.8
82.5°	26.7	27.1	26.7	26.4	26.0
85°	12.0	12.4	12.0	12.0	11.7
87.5°	3.0	3.0	3.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)