

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: P973745

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

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973745
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: FLR2-22-20HE-L830-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

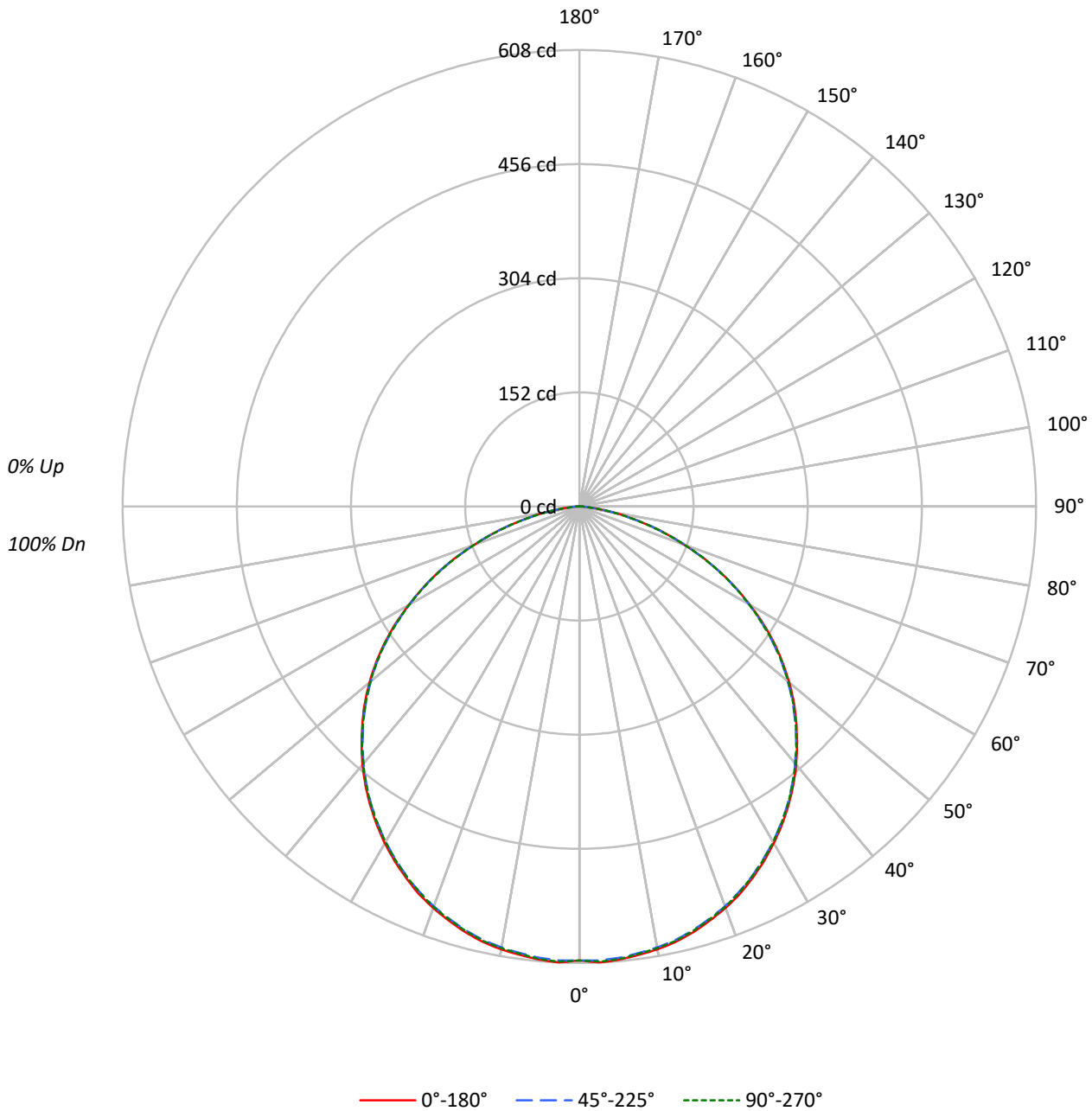
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1690.7 lumens
Efficiency: N/A
Efficacy: 114.2 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): 14.8
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°	1627	1627	1627
5°	1637	1630	1635
10°	1637	1630	1633
15°	1635	1628	1630
20°	1630	1623	1625
25°	1621	1614	1616
30°	1609	1602	1604
35°	1595	1589	1590
40°	1578	1570	1572
45°	1555	1548	1550
50°	1527	1516	1520
55°	1484	1472	1477
60°	1411	1405	1405
65°	1317	1315	1310
70°	1166	1172	1169
75°	983	974	967
80°	707	694	688
85°	367	367	358

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1555 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.2	3.4
10°-20°	164.6	9.7
20°-30°	250.2	14.8
30°-40°	302.4	17.9
40°-50°	313.9	18.6
50°-60°	280.6	16.6
60°-70°	204.0	12.1
70°-80°	100.3	5.9
80°-90°	17.4	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°	472.1	27.9
0°-40°	774.5	45.8
0°-60°	1368.9	81.0
0°-90°	1690.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1690.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	605	605	605	605	605	
5°	606	599	604	601	605	58
15°	587	580	584	583	585	166
25°	546	540	544	543	544	252
35°	486	482	484	484	484	304
45°	408	407	407	407	407	315
55°	316	314	314	314	315	282
65°	207	208	206	206	206	204
75°	94	95	94	94	93	100
85°	12	12	12	12	12	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	604.6	604.6	604.6	604.6	604.6
2.5°	607.9	600.8	605.3	602.7	606.8
5°	606.1	599.0	603.5	601.2	605.3
7.5°	602.7	595.6	600.1	597.9	601.2
10°	599.0	591.5	596.4	594.1	597.5
12.5°	594.1	587.0	591.5	589.6	592.6
15°	587.0	580.3	584.4	582.9	585.2
17.5°	578.4	571.7	575.8	574.7	576.6
20°	569.1	562.7	566.9	565.7	567.6
22.5°	558.6	551.9	555.7	554.9	556.4
25°	545.9	540.0	543.7	542.6	544.1
27.5°	532.5	526.9	529.9	529.9	530.6
30°	517.9	512.7	515.7	515.7	516.1
32.5°	502.3	498.1	500.0	500.4	500.4
35°	485.5	482.1	483.6	484.0	484.0
37.5°	467.9	464.5	465.7	466.4	466.4
40°	449.2	446.2	447.0	447.7	447.4
42.5°	429.1	426.8	427.2	427.9	427.9
45°	408.5	406.7	406.7	407.4	407.4
47.5°	387.6	385.7	385.0	385.7	385.7
50°	364.8	363.0	362.2	363.0	363.0
52.5°	340.9	339.1	339.1	339.1	339.4
55°	316.3	314.4	313.7	314.4	314.8
57.5°	290.1	289.4	288.3	288.7	287.5
60°	262.1	262.1	261.0	261.8	261.0
62.5°	234.9	235.6	234.5	234.5	233.8
65°	206.9	207.6	206.5	206.5	205.8
67.5°	178.1	179.2	177.7	177.7	177.0
70°	148.2	150.5	149.0	149.4	148.6
72.5°	121.4	122.5	121.0	121.0	120.2
75°	94.5	95.2	93.7	94.1	93.0
77.5°	68.0	69.1	67.6	68.0	67.6
80°	45.6	45.9	44.8	45.2	44.4
82.5°	26.5	26.9	26.5	26.1	25.8
85°	11.9	12.3	11.9	11.9	11.6
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)