

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: P973758

Luminaire Tested: FLR2-22-25HE-L830-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973758
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: FLR2-22-25HE-L830-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

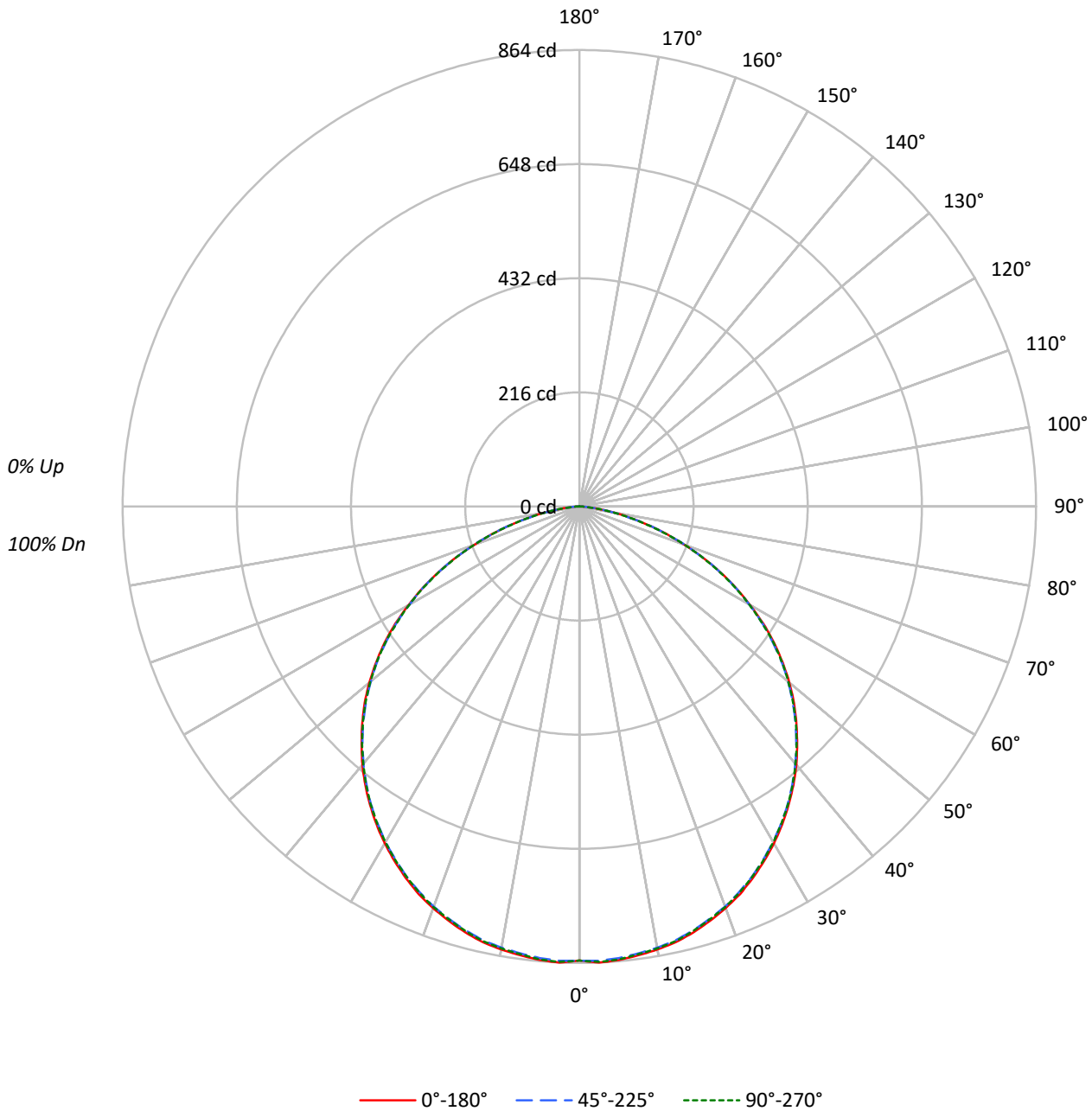
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2403.8 lumens
Efficiency: N/A
Efficacy: 125.2 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): 19.2
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°	2313	2313	2313
5°	2328	2318	2325
10°	2327	2317	2321
15°	2325	2315	2318
20°	2317	2308	2311
25°	2305	2295	2297
30°	2288	2278	2280
35°	2267	2258	2260
40°	2244	2232	2234
45°	2210	2200	2204
50°	2171	2156	2161
55°	2110	2092	2100
60°	2006	1997	1997
65°	1873	1869	1862
70°	1659	1666	1662
75°	1396	1386	1375
80°	1004	987	979
85°	525	525	509

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2210 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.4	3.4
10°-20°	234.1	9.7
20°-30°	355.7	14.8
30°-40°	429.9	17.9
40°-50°	446.3	18.6
50°-60°	399.0	16.6
60°-70°	290.1	12.1
70°-80°	142.6	5.9
80°-90°	24.7	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°	671.2	27.9
0°-40°	1101.1	45.8
0°-60°	1946.3	81.0
0°-90°	2403.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2403.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	860	860	860	860	860	
5°	862	852	858	855	861	82
15°	835	825	831	829	832	236
25°	776	768	773	771	774	358
35°	690	685	688	688	688	432
45°	581	578	578	579	579	448
55°	450	447	446	447	448	401
65°	294	295	294	294	292	290
75°	134	135	133	134	132	143
85°	17	18	17	17	16	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	859.6	859.6	859.6	859.6	859.6
2.5°	864.3	854.3	860.6	856.9	862.8
5°	861.7	851.6	858.0	854.8	860.6
7.5°	856.9	846.8	853.2	850.0	854.8
10°	851.6	841.0	847.9	844.7	849.5
12.5°	844.7	834.6	841.0	838.3	842.6
15°	834.6	825.1	830.9	828.8	832.0
17.5°	822.4	812.8	818.7	817.1	819.7
20°	809.1	800.1	805.9	804.3	807.0
22.5°	794.3	784.7	790.0	789.0	791.1
25°	776.2	767.7	773.0	771.4	773.6
27.5°	757.1	749.1	753.4	753.4	754.4
30°	736.4	729.0	733.2	733.2	733.7
32.5°	714.1	708.3	710.9	711.4	711.4
35°	690.2	685.4	687.5	688.1	688.1
37.5°	665.2	660.5	662.1	663.1	663.1
40°	638.7	634.5	635.5	636.6	636.0
42.5°	610.0	606.8	607.4	608.4	608.4
45°	580.8	578.2	578.2	579.2	579.2
47.5°	551.1	548.4	547.4	548.4	548.4
50°	518.7	516.1	515.0	516.1	516.1
52.5°	484.7	482.1	482.1	482.1	482.6
55°	449.7	447.0	446.0	447.0	447.6
57.5°	412.5	411.5	409.9	410.4	408.8
60°	372.7	372.7	371.1	372.2	371.1
62.5°	334.0	335.0	333.4	333.4	332.4
65°	294.1	295.2	293.6	293.6	292.5
67.5°	253.3	254.8	252.7	252.7	251.7
70°	210.8	214.0	211.8	212.4	211.3
72.5°	172.6	174.1	172.0	172.0	171.0
75°	134.3	135.4	133.3	133.8	132.2
77.5°	96.6	98.2	96.1	96.6	96.1
80°	64.8	65.3	63.7	64.2	63.2
82.5°	37.7	38.2	37.7	37.2	36.6
85°	17.0	17.5	17.0	17.0	16.5
87.5°	4.2	4.2	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)