

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: P973752

Luminaire Tested: FLR2-22-25HE-L830-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973752
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-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

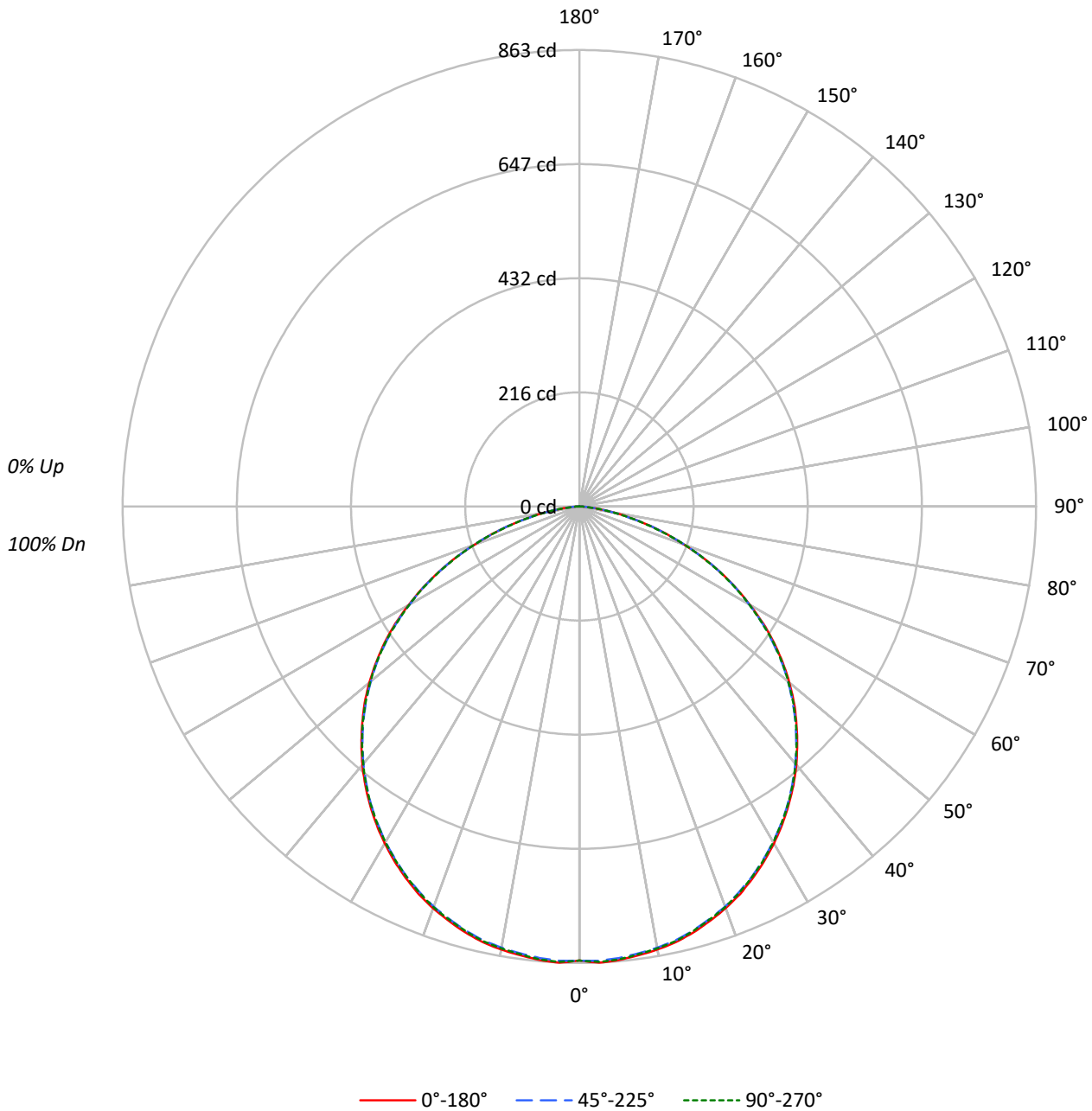
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2401.2 lumens
Efficiency: N/A
Efficacy: 125.1 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°	2310	2310	2310
5°	2325	2315	2322
10°	2325	2314	2319
15°	2323	2312	2315
20°	2315	2306	2308
25°	2302	2293	2294
30°	2286	2276	2277
35°	2265	2256	2258
40°	2241	2230	2232
45°	2208	2198	2202
50°	2169	2153	2158
55°	2107	2090	2098
60°	2004	1995	1995
65°	1871	1868	1861
70°	1656	1665	1661
75°	1395	1384	1373
80°	1003	986	978
85°	525	525	506

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2208 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.3	3.4
10°-20°	233.8	9.7
20°-30°	355.3	14.8
30°-40°	429.5	17.9
40°-50°	445.8	18.6
50°-60°	398.5	16.6
60°-70°	289.8	12.1
70°-80°	142.5	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°	670.5	27.9
0°-40°	1099.9	45.8
0°-60°	1944.3	81.0
0°-90°	2401.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2401.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	859	859	859	859	859	
5°	861	851	857	854	860	82
15°	834	824	830	828	831	235
25°	775	767	772	771	773	357
35°	690	685	687	687	687	431
45°	580	578	578	579	579	448
55°	449	447	446	447	447	400
65°	294	295	293	293	292	290
75°	134	135	133	134	132	142
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°	858.6	858.6	858.6	858.6	858.6
2.5°	863.4	853.3	859.7	856.0	861.8
5°	860.8	850.7	857.0	853.9	859.7
7.5°	856.0	845.9	852.3	849.1	853.9
10°	850.7	840.1	847.0	843.8	848.6
12.5°	843.8	833.7	840.1	837.4	841.7
15°	833.7	824.2	830.0	827.9	831.1
17.5°	821.5	812.0	817.8	816.2	818.9
20°	808.3	799.2	805.1	803.5	806.1
22.5°	793.4	783.9	789.2	788.1	790.2
25°	775.4	766.9	772.2	770.6	772.7
27.5°	756.3	748.3	752.6	752.6	753.6
30°	735.6	728.2	732.4	732.4	732.9
32.5°	713.3	707.5	710.1	710.7	710.7
35°	689.5	684.7	686.8	687.3	687.3
37.5°	664.5	659.8	661.3	662.4	662.4
40°	638.0	633.8	634.8	635.9	635.4
42.5°	609.4	606.2	606.7	607.8	607.8
45°	580.2	577.6	577.6	578.6	578.6
47.5°	550.5	547.9	546.8	547.9	547.9
50°	518.2	515.5	514.4	515.5	515.5
52.5°	484.2	481.6	481.6	481.6	482.1
55°	449.2	446.6	445.5	446.6	447.1
57.5°	412.1	411.0	409.4	410.0	408.4
60°	372.3	372.3	370.7	371.8	370.7
62.5°	333.6	334.7	333.1	333.1	332.0
65°	293.8	294.9	293.3	293.3	292.2
67.5°	253.0	254.6	252.4	252.4	251.4
70°	210.5	213.7	211.6	212.1	211.1
72.5°	172.4	174.0	171.8	171.8	170.8
75°	134.2	135.2	133.1	133.6	132.1
77.5°	96.5	98.1	96.0	96.5	96.0
80°	64.7	65.2	63.6	64.2	63.1
82.5°	37.7	38.2	37.7	37.1	36.6
85°	17.0	17.5	17.0	17.0	16.4
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)