

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: P973836

Luminaire Tested: FLR2-22-25HE-L835-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973836
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-L835-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

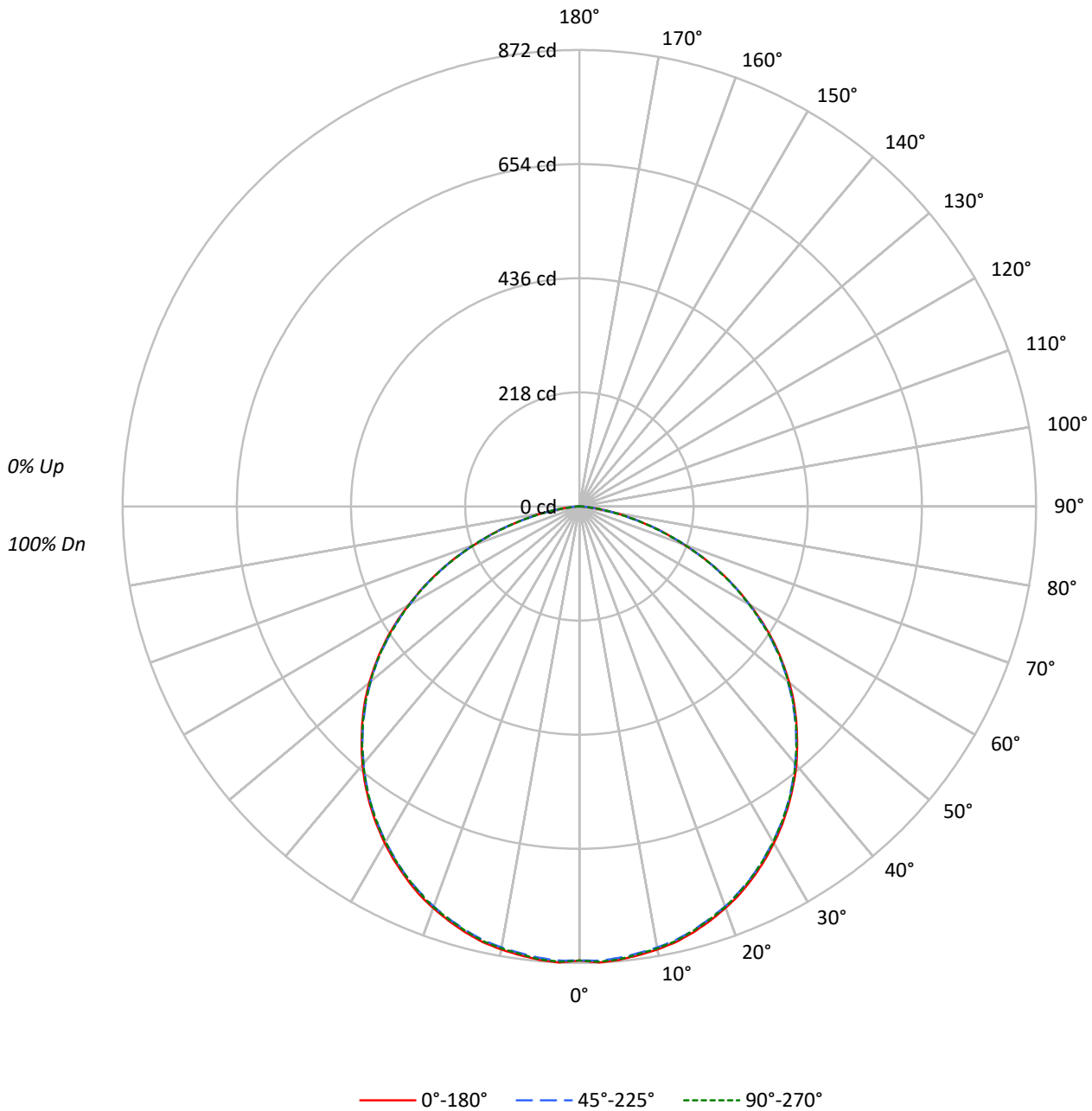
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2425.5 lumens
Efficiency: N/A
Efficacy: 126.3 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 (A_{in}): 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°	2334	2334	2334
5°	2349	2338	2346
10°	2348	2338	2342
15°	2346	2336	2339
20°	2338	2329	2332
25°	2325	2316	2317
30°	2309	2299	2300
35°	2288	2279	2281
40°	2264	2252	2255
45°	2230	2220	2224
50°	2191	2175	2180
55°	2129	2111	2119
60°	2024	2016	2016
65°	1890	1886	1880
70°	1674	1681	1677
75°	1409	1398	1387
80°	1013	996	987
85°	528	528	513

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2230 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.1	3.4
10°-20°	236.2	9.7
20°-30°	358.9	14.8
30°-40°	433.8	17.9
40°-50°	450.3	18.6
50°-60°	402.6	16.6
60°-70°	292.7	12.1
70°-80°	143.9	5.9
80°-90°	25.0	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°	677.2	27.9
0°-40°	1111.0	45.8
0°-60°	1963.9	81.0
0°-90°	2425.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2425.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	867	867	867	867	867	
5°	870	859	866	862	868	83
15°	842	832	838	836	840	238
25°	783	775	780	778	780	361
35°	696	692	694	694	694	436
45°	586	583	583	584	584	452
55°	454	451	450	451	452	404
65°	297	298	296	296	295	293
75°	136	137	134	135	133	144
85°	17	18	17	17	17	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	867.3	867.3	867.3	867.3	867.3
2.5°	872.1	862.0	868.4	864.6	870.5
5°	869.5	859.3	865.7	862.5	868.4
7.5°	864.6	854.5	860.9	857.7	862.5
10°	859.3	848.6	855.5	852.3	857.1
12.5°	852.3	842.1	848.6	845.9	850.2
15°	842.1	832.5	838.4	836.2	839.5
17.5°	829.8	820.2	826.1	824.5	827.1
20°	816.4	807.3	813.2	811.6	814.3
22.5°	801.4	791.8	797.1	796.1	798.2
25°	783.2	774.6	780.0	778.4	780.5
27.5°	763.9	755.9	760.2	760.2	761.2
30°	743.0	735.5	739.8	739.8	740.3
32.5°	720.5	714.6	717.3	717.9	717.9
35°	696.4	691.6	693.7	694.3	694.3
37.5°	671.2	666.4	668.0	669.1	669.1
40°	644.5	640.2	641.2	642.3	641.8
42.5°	615.5	612.3	612.9	613.9	613.9
45°	586.1	583.4	583.4	584.5	584.5
47.5°	556.1	553.4	552.3	553.4	553.4
50°	523.4	520.7	519.6	520.7	520.7
52.5°	489.1	486.4	486.4	486.4	487.0
55°	453.7	451.1	450.0	451.1	451.6
57.5°	416.2	415.2	413.6	414.1	412.5
60°	376.1	376.1	374.5	375.5	374.5
62.5°	337.0	338.0	336.4	336.4	335.4
65°	296.8	297.9	296.2	296.2	295.2
67.5°	255.5	257.1	255.0	255.0	253.9
70°	212.7	215.9	213.7	214.3	213.2
72.5°	174.1	175.7	173.6	173.6	172.5
75°	135.5	136.6	134.5	135.0	133.4
77.5°	97.5	99.1	97.0	97.5	97.0
80°	65.4	65.9	64.3	64.8	63.7
82.5°	38.0	38.6	38.0	37.5	37.0
85°	17.1	17.7	17.1	17.1	16.6
87.5°	4.3	4.3	4.3	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)