

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: P974735

Luminaire Tested: FLR2-24-100HE-L835-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-100HE-L835-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

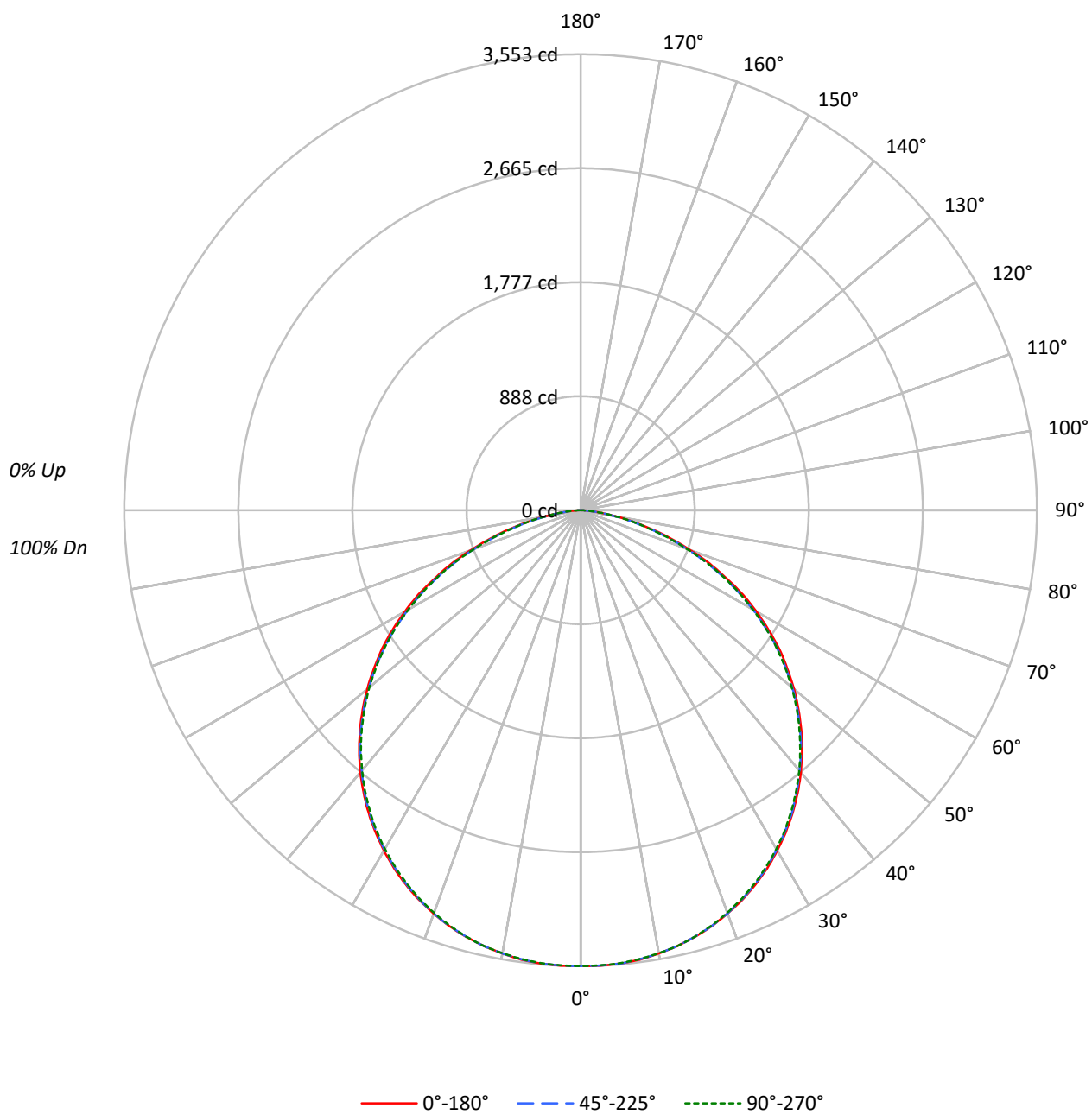
Lumens per Lamp: N/A
Luminaire Lumens: 10042.1 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 82.6
Input Voltage (V):
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					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		34
8	61	47	39	33	59	47	38	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	39	33	29	27		27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4781	4781	4781
5°	4790	4790	4787
10°	4793	4792	4790
15°	4795	4793	4793
20°	4790	4788	4781
25°	4781	4771	4764
30°	4760	4746	4736
35°	4728	4716	4699
40°	4687	4658	4651
45°	4626	4599	4585
50°	4539	4505	4491
55°	4432	4369	4363
60°	4247	4172	4172
65°	3974	3880	3892
70°	3576	3465	3456
75°	3002	2883	2870
80°	2193	2084	2173
85°	1240	1141	1161

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4626 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.3	3.4
10°-20°	971.6	9.7
20°-30°	1481.4	14.8
30°-40°	1794.8	17.9
40°-50°	1864.3	18.6
50°-60°	1667.8	16.6
60°-70°	1215.5	12.1
70°-80°	602.0	6.0
80°-90°	107.6	1.1
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°	2790.2	27.8
0°-40°	4585.0	45.7
0°-60°	8117.1	80.8
0°-90°	10042.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10042.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3553	3553	3553	3553	3553	
5°	3547	3548	3547	3547	3544	337
15°	3442	3441	3441	3444	3441	972
25°	3220	3216	3214	3213	3209	1484
35°	2879	2875	2871	2866	2861	1801
45°	2431	2426	2417	2412	2410	1874
55°	1889	1875	1863	1863	1860	1683
65°	1248	1238	1219	1224	1223	1237
75°	578	569	555	565	552	616
85°	80	74	74	75	75	111
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3553.1	3553.1	3553.1	3553.1	3553.1
2.5°	3553.1	3551.8	3551.8	3553.1	3550.6
5°	3546.7	3548.0	3546.7	3546.7	3544.2
7.5°	3532.7	3531.4	3530.2	3531.4	3527.6
10°	3508.5	3508.5	3507.2	3508.5	3505.9
12.5°	3479.2	3479.2	3479.2	3480.4	3479.2
15°	3442.2	3440.9	3440.9	3443.5	3440.9
17.5°	3398.9	3397.6	3397.6	3396.3	3393.8
20°	3345.3	3345.3	3344.0	3342.8	3338.9
22.5°	3287.9	3286.7	3282.8	3282.8	3277.7
25°	3220.4	3216.5	3214.0	3212.7	3208.9
27.5°	3146.4	3141.3	3137.5	3134.9	3131.1
30°	3063.6	3058.5	3054.6	3050.8	3048.3
32.5°	2974.3	2971.8	2965.4	2964.1	2959.0
35°	2878.7	2874.9	2871.0	2865.9	2860.8
37.5°	2776.7	2772.9	2764.0	2761.4	2757.6
40°	2668.3	2663.2	2651.8	2651.8	2647.9
42.5°	2552.3	2547.2	2539.6	2534.5	2531.9
45°	2431.2	2426.1	2417.2	2412.1	2409.5
47.5°	2302.4	2298.6	2288.4	2284.6	2280.8
50°	2168.6	2163.5	2152.0	2149.5	2145.6
52.5°	2028.3	2025.8	2010.5	2009.2	2005.4
55°	1889.4	1875.4	1862.6	1862.6	1860.1
57.5°	1736.4	1726.2	1709.6	1709.6	1707.1
60°	1578.3	1569.4	1550.3	1552.8	1550.3
62.5°	1424.0	1404.9	1387.1	1394.7	1388.4
65°	1248.1	1237.9	1218.8	1223.9	1222.6
67.5°	1087.5	1068.4	1050.5	1060.7	1055.6
70°	909.0	898.8	880.9	891.1	878.4
72.5°	740.7	731.8	713.9	725.4	712.7
75°	577.5	568.6	554.6	564.8	552.0
77.5°	423.3	416.9	404.1	414.3	416.9
80°	283.0	275.4	269.0	277.9	280.5
82.5°	165.7	160.6	158.1	159.4	165.7
85°	80.3	73.9	73.9	75.2	75.2
87.5°	21.7	19.1	21.7	22.9	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)