

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: P973765

Luminaire Tested: FLR2-22-35HE-L930-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973765
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: FLR2-22-35HE-L930-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

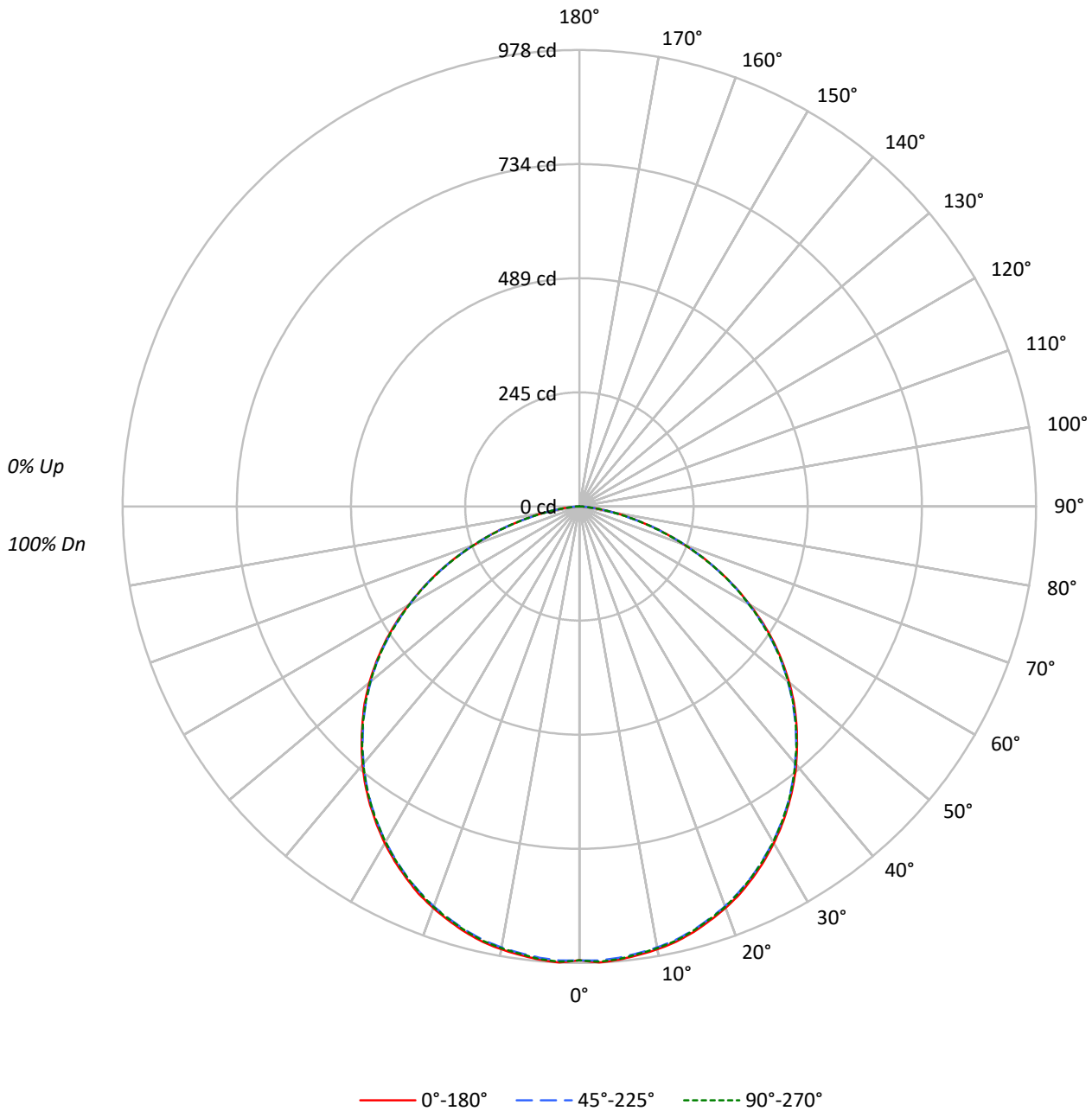
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2719.6 lumens
Efficiency: N/A
Efficacy: 100.0 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): 27.2
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°	2617	2617	2617
5°	2633	2622	2630
10°	2633	2621	2626
15°	2631	2619	2622
20°	2621	2611	2615
25°	2608	2597	2599
30°	2589	2577	2579
35°	2565	2555	2557
40°	2538	2526	2528
45°	2501	2489	2494
50°	2457	2439	2444
55°	2387	2367	2376
60°	2270	2260	2260
65°	2119	2115	2108
70°	1876	1886	1881
75°	1580	1568	1555
80°	1136	1117	1108
85°	593	593	574

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2501 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	3.4
10°-20°	264.8	9.7
20°-30°	402.4	14.8
30°-40°	486.4	17.9
40°-50°	504.9	18.6
50°-60°	451.4	16.6
60°-70°	328.2	12.1
70°-80°	161.4	5.9
80°-90°	28.0	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°	759.4	27.9
0°-40°	1245.8	45.8
0°-60°	2202.1	81.0
0°-90°	2719.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2719.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	972	972	972	972	972	
5°	975	964	971	967	974	93
15°	944	934	940	938	941	266
25°	878	869	875	873	875	405
35°	781	776	778	778	778	489
45°	657	654	654	655	655	507
55°	509	506	505	506	506	453
65°	333	334	332	332	331	328
75°	152	153	151	151	150	161
85°	19	20	19	19	19	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	972.5	972.5	972.5	972.5	972.5
2.5°	977.9	966.5	973.7	969.5	976.1
5°	974.9	963.5	970.7	967.1	973.7
7.5°	969.5	958.1	965.3	961.7	967.1
10°	963.5	951.5	959.3	955.7	961.1
12.5°	955.7	944.3	951.5	948.5	953.3
15°	944.3	933.5	940.1	937.7	941.3
17.5°	930.5	919.7	926.3	924.5	927.5
20°	915.4	905.2	911.8	910.0	913.0
22.5°	898.6	887.8	893.8	892.6	895.0
25°	878.2	868.6	874.6	872.8	875.2
27.5°	856.6	847.6	852.4	852.4	853.6
30°	833.2	824.7	829.5	829.5	830.1
32.5°	807.9	801.3	804.3	804.9	804.9
35°	780.9	775.5	777.9	778.5	778.5
37.5°	752.7	747.3	749.1	750.3	750.3
40°	722.6	717.8	719.0	720.2	719.6
42.5°	690.2	686.6	687.2	688.4	688.4
45°	657.2	654.1	654.1	655.3	655.3
47.5°	623.5	620.5	619.3	620.5	620.5
50°	586.9	583.9	582.7	583.9	583.9
52.5°	548.4	545.4	545.4	545.4	546.0
55°	508.8	505.8	504.6	505.8	506.4
57.5°	466.7	465.5	463.7	464.3	462.5
60°	421.7	421.7	419.9	421.1	419.9
62.5°	377.8	379.0	377.2	377.2	376.0
65°	332.8	334.0	332.2	332.2	331.0
67.5°	286.5	288.3	285.9	285.9	284.7
70°	238.5	242.1	239.7	240.3	239.1
72.5°	195.2	197.0	194.6	194.6	193.4
75°	152.0	153.2	150.8	151.4	149.6
77.5°	109.3	111.1	108.7	109.3	108.7
80°	73.3	73.9	72.1	72.7	71.5
82.5°	42.6	43.2	42.6	42.0	41.4
85°	19.2	19.8	19.2	19.2	18.6
87.5°	4.8	4.8	4.8	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)