

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: P973777

Luminaire Tested: FLR2-22-35HE-L930-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973777
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-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

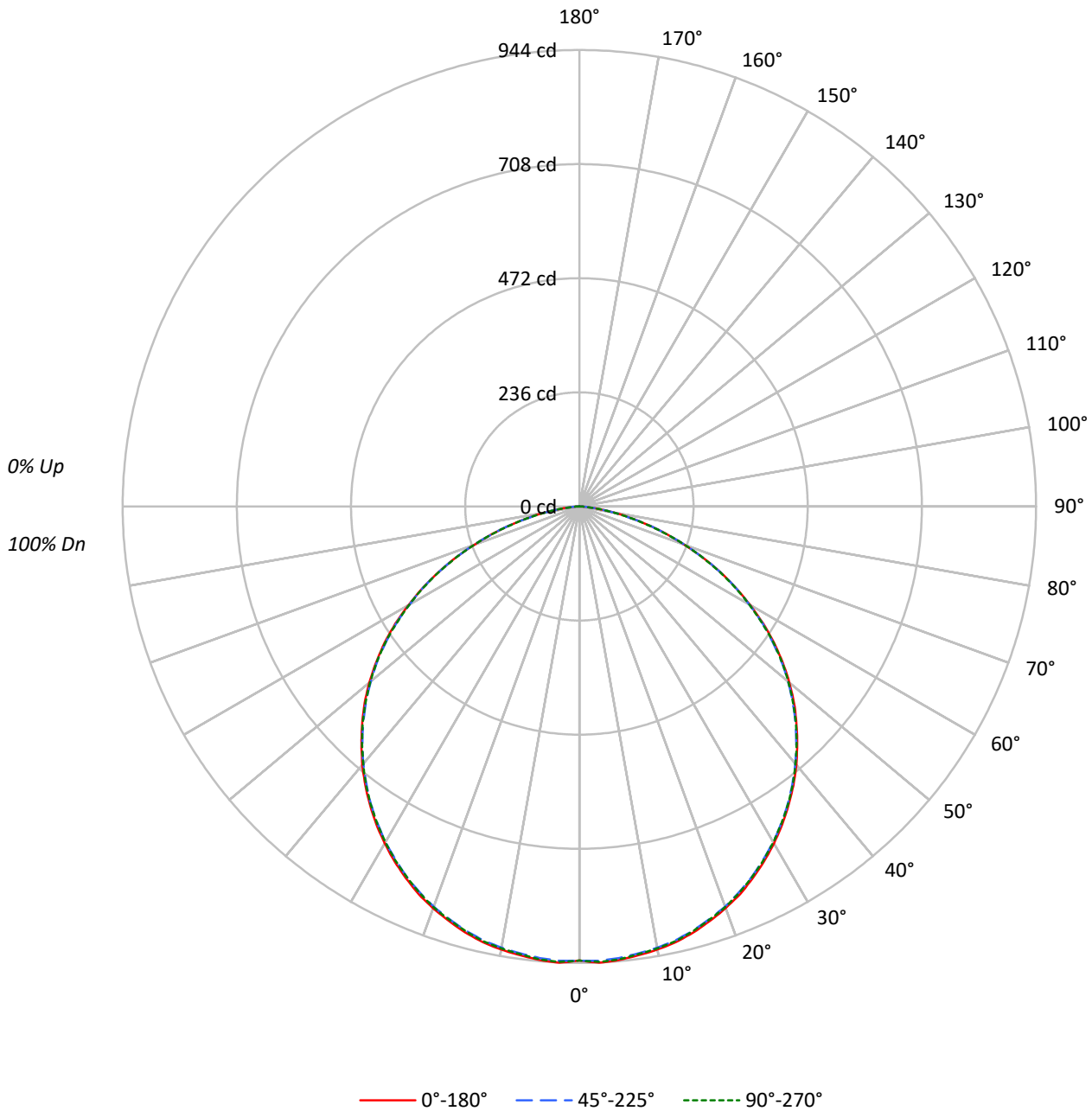
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2626.6 lumens
Efficiency: N/A
Efficacy: 96.6 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°	2527	2527	2527
5°	2544	2532	2540
10°	2543	2532	2536
15°	2541	2529	2533
20°	2532	2522	2525
25°	2518	2508	2510
30°	2500	2490	2491
35°	2478	2468	2470
40°	2452	2439	2441
45°	2415	2404	2409
50°	2373	2356	2361
55°	2305	2286	2295
60°	2192	2182	2182
65°	2046	2043	2036
70°	1812	1821	1817
75°	1526	1514	1502
80°	1097	1079	1069
85°	574	574	556

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2415 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.9	3.4
10°-20°	255.8	9.7
20°-30°	388.7	14.8
30°-40°	469.8	17.9
40°-50°	487.6	18.6
50°-60°	436.0	16.6
60°-70°	317.0	12.1
70°-80°	155.9	5.9
80°-90°	27.0	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°	733.4	27.9
0°-40°	1203.2	45.8
0°-60°	2126.8	81.0
0°-90°	2626.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2626.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	939	939	939	939	939	
5°	942	930	938	934	940	89
15°	912	902	908	906	909	257
25°	848	839	845	843	845	391
35°	754	749	751	752	752	472
45°	635	632	632	633	633	490
55°	491	488	487	488	489	438
65°	321	323	321	321	320	317
75°	147	148	146	146	144	156
85°	19	19	19	19	18	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	939.2	939.2	939.2	939.2	939.2
2.5°	944.5	933.4	940.4	936.3	942.7
5°	941.6	930.5	937.5	934.0	940.4
7.5°	936.3	925.3	932.3	928.8	934.0
10°	930.5	918.9	926.5	923.0	928.2
12.5°	923.0	912.0	918.9	916.0	920.7
15°	912.0	901.5	907.9	905.6	909.1
17.5°	898.6	888.2	894.6	892.8	895.7
20°	884.1	874.3	880.7	878.9	881.8
22.5°	867.9	857.4	863.3	862.1	864.4
25°	848.2	838.9	844.7	842.9	845.3
27.5°	827.3	818.6	823.2	823.2	824.4
30°	804.7	796.5	801.2	801.2	801.8
32.5°	780.3	773.9	776.8	777.4	777.4
35°	754.2	749.0	751.3	751.9	751.9
37.5°	726.9	721.7	723.4	724.6	724.6
40°	697.9	693.3	694.4	695.6	695.0
42.5°	666.6	663.1	663.7	664.8	664.8
45°	634.7	631.8	631.8	632.9	632.9
47.5°	602.2	599.3	598.1	599.3	599.3
50°	566.8	563.9	562.7	563.9	563.9
52.5°	529.7	526.8	526.8	526.8	527.3
55°	491.4	488.5	487.3	488.5	489.1
57.5°	450.8	449.6	447.9	448.4	446.7
60°	407.3	407.3	405.5	406.7	405.5
62.5°	364.9	366.1	364.3	364.3	363.2
65°	321.4	322.6	320.8	320.8	319.7
67.5°	276.7	278.5	276.1	276.1	275.0
70°	230.3	233.8	231.5	232.1	230.9
72.5°	188.5	190.3	188.0	188.0	186.8
75°	146.8	147.9	145.6	146.2	144.5
77.5°	105.6	107.3	105.0	105.6	105.0
80°	70.8	71.4	69.6	70.2	69.0
82.5°	41.2	41.8	41.2	40.6	40.0
85°	18.6	19.1	18.6	18.6	18.0
87.5°	4.6	4.6	4.6	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)