

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: P973783

Luminaire Tested: FLR2-22-35HE-L930-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973783
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

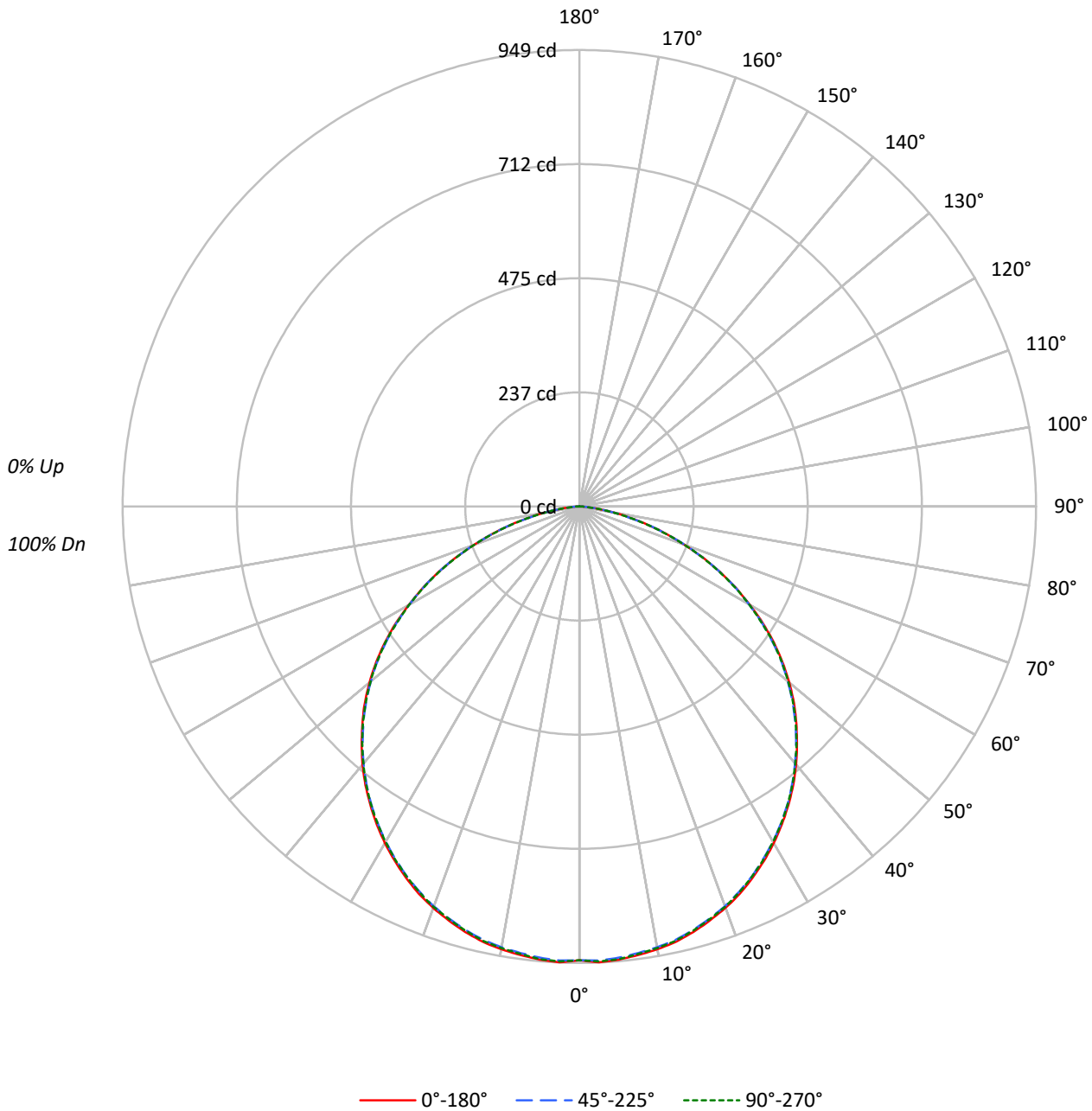
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2638.3 lumens
Efficiency: N/A
Efficacy: 97.0 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																				
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85																				
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71																				
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60																				
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51																				
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44																				
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39																				
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34																				
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30																				
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27																				
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2539	2539	2539
5°	2555	2544	2552
10°	2554	2543	2548
15°	2552	2540	2544
20°	2543	2533	2536
25°	2529	2519	2521
30°	2511	2500	2502
35°	2488	2479	2481
40°	2462	2450	2452
45°	2426	2415	2419
50°	2383	2366	2371
55°	2316	2297	2305
60°	2202	2192	2192
65°	2055	2052	2045
70°	1820	1829	1825
75°	1533	1521	1509
80°	1102	1083	1074
85°	574	574	559

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2426 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	3.4
10°-20°	256.9	9.7
20°-30°	390.4	14.8
30°-40°	471.9	17.9
40°-50°	489.8	18.6
50°-60°	437.9	16.6
60°-70°	318.4	12.1
70°-80°	156.6	5.9
80°-90°	27.2	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°	736.6	27.9
0°-40°	1208.5	45.8
0°-60°	2136.2	81.0
0°-90°	2638.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2638.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	943	943	943	943	943	
5°	946	935	942	938	945	90
15°	916	906	912	910	913	258
25°	852	843	848	847	849	393
35°	758	752	755	755	755	474
45°	638	635	635	636	636	492
55°	494	491	490	491	491	440
65°	323	324	322	322	321	318
75°	147	149	146	147	145	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°	943.4	943.4	943.4	943.4	943.4
2.5°	948.7	937.6	944.6	940.5	946.9
5°	945.7	934.7	941.7	938.2	944.6
7.5°	940.5	929.4	936.4	932.9	938.2
10°	934.7	923.0	930.6	927.1	932.3
12.5°	927.1	916.0	923.0	920.1	924.8
15°	916.0	905.5	911.9	909.6	913.1
17.5°	902.6	892.1	898.5	896.8	899.7
20°	888.1	878.1	884.6	882.8	885.7
22.5°	871.7	861.2	867.1	865.9	868.2
25°	851.9	842.6	848.4	846.7	849.0
27.5°	830.9	822.2	826.9	826.9	828.0
30°	808.2	800.1	804.7	804.7	805.3
32.5°	783.7	777.3	780.3	780.8	780.8
35°	757.5	752.3	754.6	755.2	755.2
37.5°	730.1	724.9	726.6	727.8	727.8
40°	701.0	696.3	697.5	698.7	698.1
42.5°	669.5	666.0	666.6	667.8	667.8
45°	637.5	634.6	634.6	635.7	635.7
47.5°	604.9	601.9	600.8	601.9	601.9
50°	569.3	566.4	565.2	566.4	566.4
52.5°	532.0	529.1	529.1	529.1	529.7
55°	493.6	490.6	489.5	490.6	491.2
57.5°	452.8	451.6	449.9	450.4	448.7
60°	409.1	409.1	407.3	408.5	407.3
62.5°	366.5	367.7	365.9	365.9	364.8
65°	322.8	324.0	322.2	322.2	321.1
67.5°	278.0	279.7	277.4	277.4	276.2
70°	231.3	234.8	232.5	233.1	231.9
72.5°	189.4	191.1	188.8	188.8	187.6
75°	147.4	148.6	146.3	146.8	145.1
77.5°	106.1	107.8	105.5	106.1	105.5
80°	71.1	71.7	69.9	70.5	69.3
82.5°	41.4	42.0	41.4	40.8	40.2
85°	18.6	19.2	18.6	18.6	18.1
87.5°	4.7	4.7	4.7	4.7	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)