

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: P974035

Luminaire Tested: FLR2-22-35HE-L950-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974035
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-L950-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

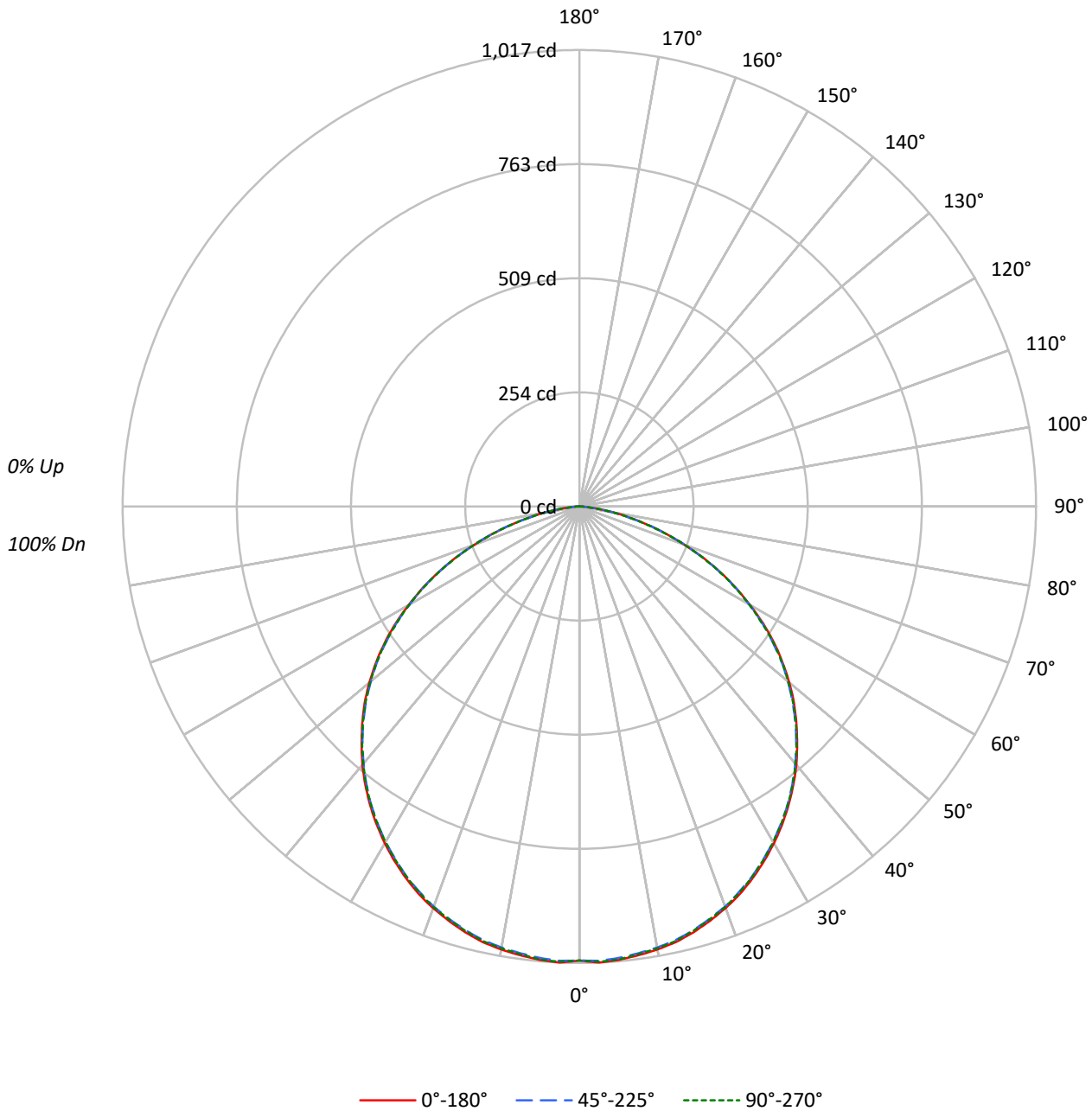
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2829.0 lumens
Efficiency: N/A
Efficacy: 104.0 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°	2722	2722	2722
5°	2739	2727	2736
10°	2739	2727	2732
15°	2736	2724	2728
20°	2727	2716	2720
25°	2712	2701	2703
30°	2693	2681	2683
35°	2668	2658	2660
40°	2641	2627	2630
45°	2602	2589	2594
50°	2556	2537	2542
55°	2483	2463	2471
60°	2361	2351	2351
65°	2204	2200	2192
70°	1952	1961	1957
75°	1644	1630	1618
80°	1181	1162	1153
85°	618	618	599

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2602 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	3.4
10°-20°	275.5	9.7
20°-30°	418.6	14.8
30°-40°	506.0	17.9
40°-50°	525.2	18.6
50°-60°	469.5	16.6
60°-70°	341.4	12.1
70°-80°	167.9	5.9
80°-90°	29.1	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°	789.9	27.9
0°-40°	1295.9	45.8
0°-60°	2290.6	81.0
0°-90°	2829.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2829.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1012	1012	1012	1012	1012	
5°	1014	1002	1010	1006	1013	96
15°	982	971	978	975	979	277
25°	914	904	910	908	910	421
35°	812	807	809	810	810	508
45°	684	680	680	682	682	527
55°	529	526	525	526	527	472
65°	346	347	346	346	344	341
75°	158	159	157	158	156	168
85°	20	21	20	20	19	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1011.6	1011.6	1011.6	1011.6	1011.6
2.5°	1017.2	1005.4	1012.9	1008.5	1015.4
5°	1014.1	1002.2	1009.7	1006.0	1012.9
7.5°	1008.5	996.6	1004.1	1000.4	1006.0
10°	1002.2	989.7	997.9	994.1	999.7
12.5°	994.1	982.2	989.7	986.6	991.6
15°	982.2	971.0	977.9	975.4	979.1
17.5°	967.9	956.6	963.5	961.6	964.7
20°	952.2	941.6	948.5	946.6	949.7
22.5°	934.8	923.5	929.8	928.5	931.0
25°	913.5	903.5	909.8	907.9	910.4
27.5°	891.0	881.6	886.6	886.6	887.9
30°	866.6	857.9	862.9	862.9	863.5
32.5°	840.4	833.5	836.7	837.3	837.3
35°	812.3	806.7	809.2	809.8	809.8
37.5°	782.9	777.3	779.2	780.4	780.4
40°	751.7	746.7	747.9	749.2	748.6
42.5°	717.9	714.2	714.8	716.1	716.1
45°	683.6	680.4	680.4	681.7	681.7
47.5°	648.6	645.5	644.2	645.5	645.5
50°	610.5	607.3	606.1	607.3	607.3
52.5°	570.5	567.4	567.4	567.4	568.0
55°	529.2	526.1	524.9	526.1	526.7
57.5°	485.5	484.2	482.4	483.0	481.1
60°	438.6	438.6	436.8	438.0	436.8
62.5°	393.0	394.3	392.4	392.4	391.1
65°	346.2	347.4	345.5	345.5	344.3
67.5°	298.0	299.9	297.4	297.4	296.2
70°	248.1	251.8	249.3	249.9	248.7
72.5°	203.1	204.9	202.4	202.4	201.2
75°	158.1	159.3	156.8	157.5	155.6
77.5°	113.7	115.6	113.1	113.7	113.1
80°	76.2	76.9	75.0	75.6	74.4
82.5°	44.4	45.0	44.4	43.7	43.1
85°	20.0	20.6	20.0	20.0	19.4
87.5°	5.0	5.0	5.0	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)