

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: P973639

Luminaire Tested: FLR2-22-35-L940-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973639
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: FLR2-22-35-L940-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

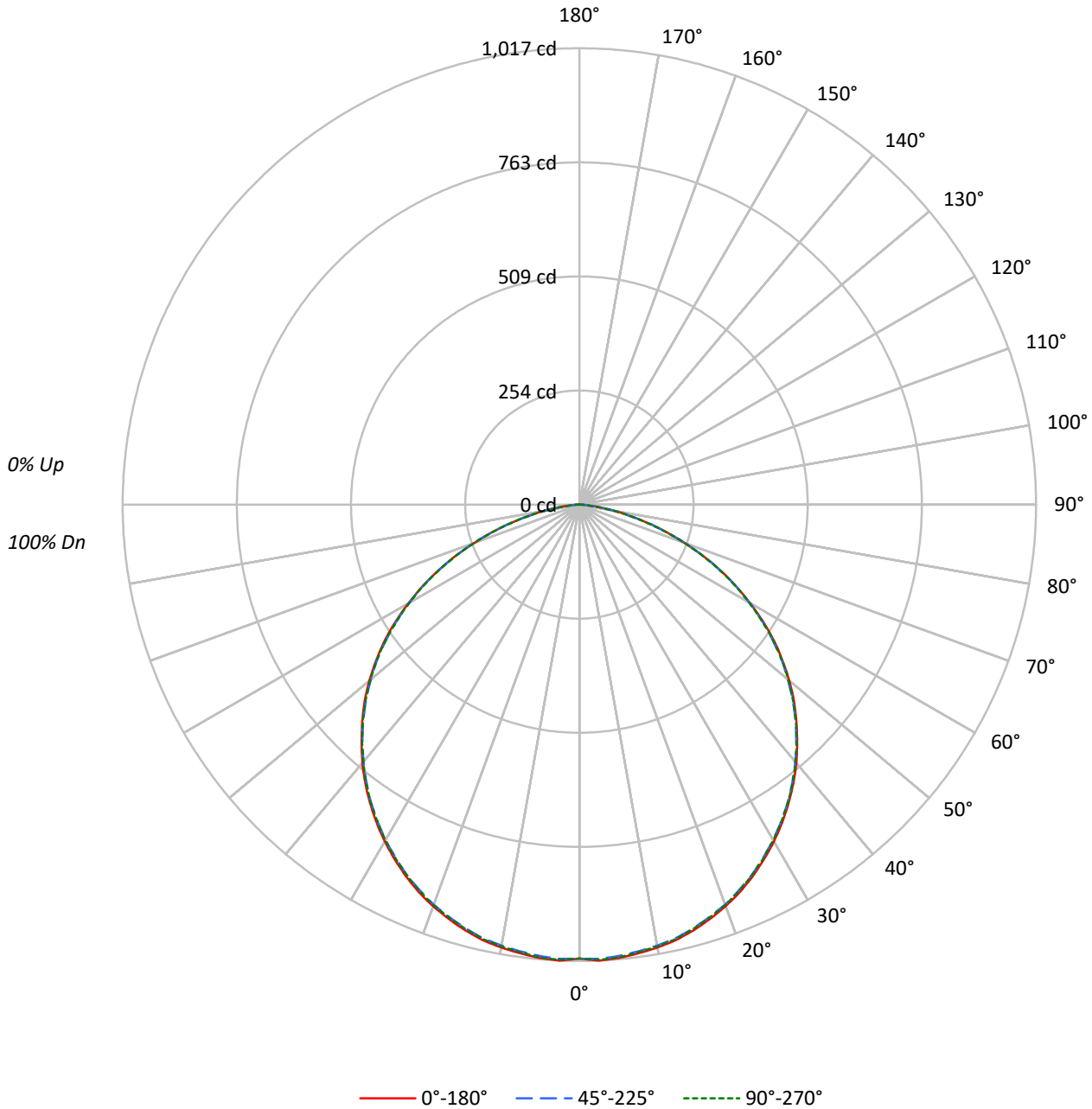
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2829.2 lumens
Efficiency: N/A
Efficacy: 101.4 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): 27.9
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°	2740	2728	2736
10°	2739	2727	2732
15°	2737	2724	2728
20°	2727	2716	2720
25°	2713	2701	2703
30°	2693	2682	2683
35°	2669	2658	2661
40°	2641	2628	2630
45°	2602	2590	2595
50°	2556	2537	2543
55°	2483	2463	2472
60°	2361	2351	2351
65°	2204	2201	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°	418.7	14.8
30°-40°	506.0	17.9
40°-50°	525.2	18.6
50°-60°	469.6	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°	790.0	27.9
0°-40°	1296.0	45.8
0°-60°	2290.8	81.0
0°-90°	2829.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2829.2	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	976	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°	1011.7	1011.7	1011.7	1011.7	1011.7
2.5°	1017.3	1005.4	1012.9	1008.6	1015.4
5°	1014.2	1002.3	1009.8	1006.1	1012.9
7.5°	1008.6	996.7	1004.2	1000.4	1006.1
10°	1002.3	989.8	997.9	994.2	999.8
12.5°	994.2	982.3	989.8	986.7	991.7
15°	982.3	971.1	977.9	975.5	979.2
17.5°	968.0	956.7	963.6	961.7	964.8
20°	952.3	941.7	948.6	946.7	949.8
22.5°	934.8	923.6	929.8	928.6	931.1
25°	913.6	903.6	909.8	908.0	910.5
27.5°	891.1	881.7	886.7	886.7	888.0
30°	866.7	858.0	863.0	863.0	863.6
32.5°	840.5	833.6	836.7	837.3	837.3
35°	812.4	806.7	809.2	809.9	809.9
37.5°	783.0	777.4	779.2	780.5	780.5
40°	751.7	746.7	748.0	749.2	748.6
42.5°	718.0	714.2	714.9	716.1	716.1
45°	683.6	680.5	680.5	681.8	681.8
47.5°	648.6	645.5	644.3	645.5	645.5
50°	610.5	607.4	606.1	607.4	607.4
52.5°	570.5	567.4	567.4	567.4	568.0
55°	529.3	526.2	524.9	526.2	526.8
57.5°	485.5	484.3	482.4	483.0	481.2
60°	438.7	438.7	436.8	438.0	436.8
62.5°	393.1	394.3	392.4	392.4	391.2
65°	346.2	347.4	345.6	345.6	344.3
67.5°	298.1	299.9	297.4	297.4	296.2
70°	248.1	251.8	249.3	250.0	248.7
72.5°	203.1	205.0	202.5	202.5	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)