

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: P973571

Luminaire Tested: FLR2-22-35-L835-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973571
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-L835-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

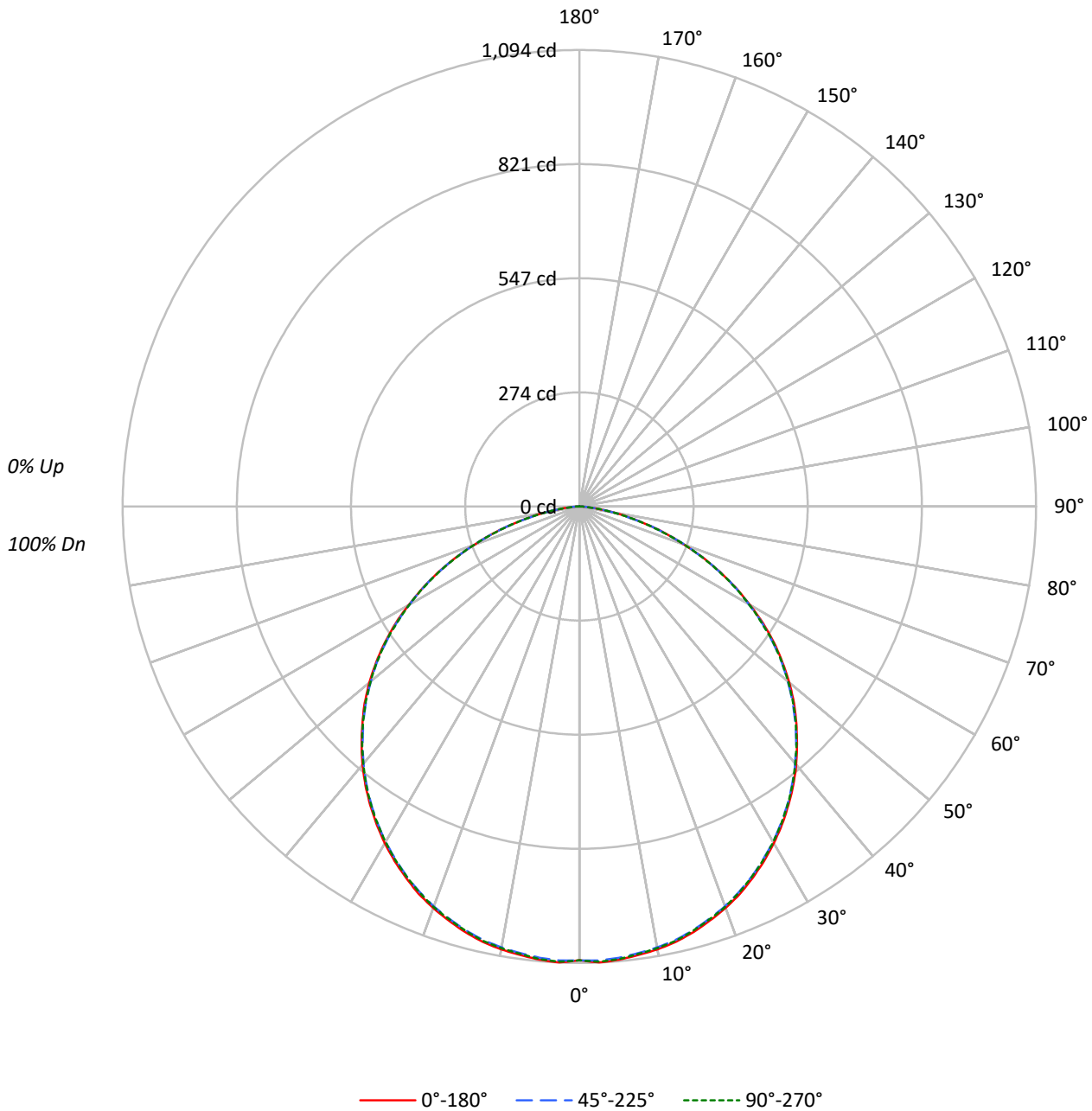
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3042.2 lumens
Efficiency: N/A
Efficacy: 109.0 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): 27.9
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									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°	2927	2927	2927
5°	2946	2933	2942
10°	2945	2932	2938
15°	2943	2930	2933
20°	2932	2921	2925
25°	2917	2905	2907
30°	2896	2883	2885
35°	2870	2858	2861
40°	2839	2825	2828
45°	2798	2785	2790
50°	2748	2729	2734
55°	2670	2648	2657
60°	2539	2528	2528
65°	2370	2366	2357
70°	2099	2109	2104
75°	1768	1754	1739
80°	1271	1249	1240
85°	664	664	642

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2798 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.0	3.4
10°-20°	296.2	9.7
20°-30°	450.2	14.8
30°-40°	544.1	17.9
40°-50°	564.8	18.6
50°-60°	504.9	16.6
60°-70°	367.1	12.1
70°-80°	180.5	5.9
80°-90°	31.3	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°	849.4	27.9
0°-40°	1393.5	45.8
0°-60°	2463.2	81.0
0°-90°	3042.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3042.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1088	1088	1088	1088	1088	
5°	1090	1078	1086	1082	1089	104
15°	1056	1044	1052	1049	1053	298
25°	982	972	978	976	979	453
35°	874	868	870	871	871	546
45°	735	732	732	733	733	567
55°	569	566	564	566	566	507
65°	372	374	372	372	370	367
75°	170	171	169	169	167	180
85°	22	22	22	22	21	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1087.8	1087.8	1087.8	1087.8	1087.8
2.5°	1093.9	1081.1	1089.2	1084.5	1091.9
5°	1090.5	1077.8	1085.8	1081.8	1089.2
7.5°	1084.5	1071.7	1079.8	1075.7	1081.8
10°	1077.8	1064.3	1073.1	1069.0	1075.1
12.5°	1069.0	1056.3	1064.3	1061.0	1066.3
15°	1056.3	1044.2	1051.6	1048.9	1052.9
17.5°	1040.8	1028.7	1036.1	1034.1	1037.4
20°	1024.0	1012.6	1020.0	1018.0	1021.3
22.5°	1005.2	993.1	999.8	998.5	1001.2
25°	982.3	971.6	978.3	976.3	979.0
27.5°	958.2	948.1	953.5	953.5	954.8
30°	932.0	922.5	927.9	927.9	928.6
32.5°	903.7	896.3	899.7	900.4	900.4
35°	873.5	867.5	870.1	870.8	870.8
37.5°	841.9	835.9	837.9	839.2	839.2
40°	808.3	802.9	804.3	805.6	805.0
42.5°	772.0	768.0	768.7	770.0	770.0
45°	735.1	731.7	731.7	733.1	733.1
47.5°	697.5	694.1	692.8	694.1	694.1
50°	656.5	653.1	651.8	653.1	653.1
52.5°	613.5	610.1	610.1	610.1	610.8
55°	569.1	565.8	564.4	565.8	566.4
57.5°	522.1	520.7	518.7	519.4	517.4
60°	471.7	471.7	469.7	471.0	469.7
62.5°	422.6	424.0	422.0	422.0	420.6
65°	372.2	373.6	371.6	371.6	370.2
67.5°	320.5	322.5	319.8	319.8	318.5
70°	266.8	270.8	268.1	268.8	267.4
72.5°	218.4	220.4	217.7	217.7	216.4
75°	170.0	171.3	168.7	169.3	167.3
77.5°	122.3	124.3	121.6	122.3	121.6
80°	82.0	82.6	80.6	81.3	80.0
82.5°	47.7	48.4	47.7	47.0	46.4
85°	21.5	22.2	21.5	21.5	20.8
87.5°	5.4	5.4	5.4	5.4	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)