

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: P973563

Luminaire Tested: FLR2-22-35-L835-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973563
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-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

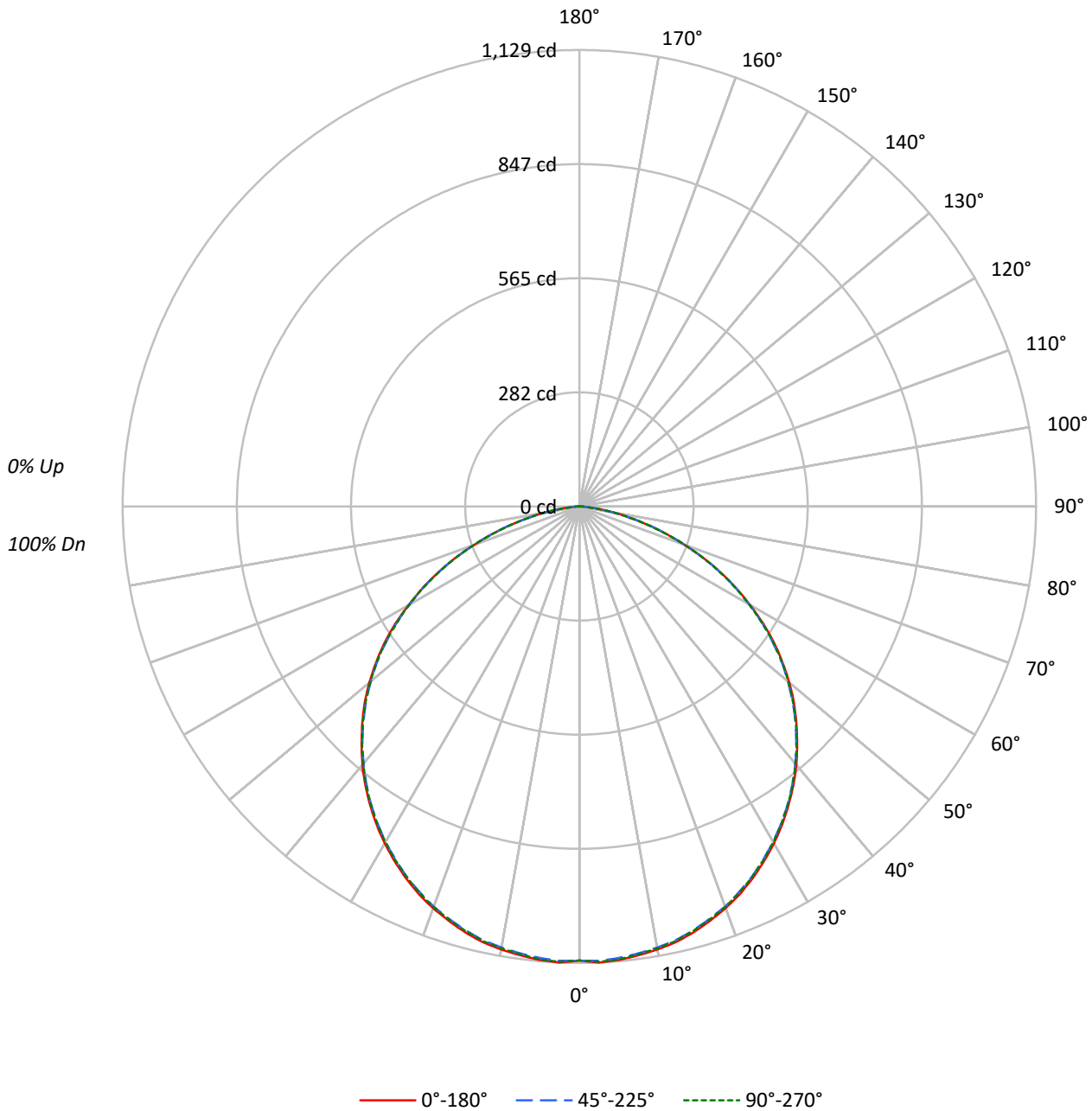
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3140.8 lumens
Efficiency: N/A
Efficacy: 112.6 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): 27.9
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°	3022	3022	3022
5°	3041	3028	3038
10°	3040	3027	3033
15°	3038	3024	3028
20°	3027	3015	3019
25°	3011	2999	3001
30°	2990	2977	2979
35°	2962	2951	2953
40°	2931	2917	2919
45°	2888	2875	2880
50°	2837	2817	2823
55°	2757	2734	2744
60°	2621	2610	2610
65°	2447	2443	2434
70°	2167	2178	2172
75°	1825	1810	1796
80°	1311	1289	1278
85°	685	685	664

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2888 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	3.4
10°-20°	305.8	9.7
20°-30°	464.8	14.8
30°-40°	561.8	17.9
40°-50°	583.1	18.6
50°-60°	521.3	16.6
60°-70°	379.0	12.1
70°-80°	186.4	5.9
80°-90°	32.3	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°	876.9	27.9
0°-40°	1438.7	45.8
0°-60°	2543.1	81.0
0°-90°	3140.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3140.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1123	1123	1123	1123	1123	
5°	1126	1113	1121	1117	1124	107
15°	1090	1078	1086	1083	1087	308
25°	1014	1003	1010	1008	1011	467
35°	902	896	898	899	899	564
45°	759	755	755	757	757	585
55°	588	584	583	584	585	524
65°	384	386	384	384	382	379
75°	176	177	174	175	173	186
85°	22	23	22	22	22	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1123.1	1123.1	1123.1	1123.1	1123.1
2.5°	1129.3	1116.2	1124.5	1119.6	1127.3
5°	1125.9	1112.7	1121.0	1116.9	1124.5
7.5°	1119.6	1106.4	1114.8	1110.6	1116.9
10°	1112.7	1098.8	1107.8	1103.7	1109.9
12.5°	1103.7	1090.5	1098.8	1095.3	1100.9
15°	1090.5	1078.0	1085.6	1082.9	1087.0
17.5°	1074.5	1062.0	1069.7	1067.6	1071.1
20°	1057.2	1045.4	1053.0	1050.9	1054.4
22.5°	1037.8	1025.3	1032.2	1030.8	1033.6
25°	1014.2	1003.1	1010.0	1007.9	1010.7
27.5°	989.2	978.8	984.4	984.4	985.7
30°	962.2	952.4	958.0	958.0	958.7
32.5°	933.0	925.4	928.9	929.6	929.6
35°	901.8	895.6	898.3	899.0	899.0
37.5°	869.2	863.0	865.0	866.4	866.4
40°	834.5	829.0	830.4	831.7	831.0
42.5°	797.1	792.9	793.6	795.0	795.0
45°	758.9	755.4	755.4	756.8	756.8
47.5°	720.1	716.6	715.2	716.6	716.6
50°	677.7	674.3	672.9	674.3	674.3
52.5°	633.3	629.9	629.9	629.9	630.6
55°	587.6	584.1	582.7	584.1	584.8
57.5°	539.0	537.6	535.5	536.2	534.1
60°	487.0	487.0	484.9	486.3	484.9
62.5°	436.3	437.7	435.6	435.6	434.3
65°	384.3	385.7	383.6	383.6	382.2
67.5°	330.9	333.0	330.2	330.2	328.8
70°	275.4	279.6	276.8	277.5	276.1
72.5°	225.5	227.5	224.8	224.8	223.4
75°	175.5	176.9	174.1	174.8	172.7
77.5°	126.3	128.3	125.6	126.3	125.6
80°	84.6	85.3	83.2	83.9	82.5
82.5°	49.3	49.9	49.3	48.6	47.9
85°	22.2	22.9	22.2	22.2	21.5
87.5°	5.5	5.5	5.5	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)