

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: P973555

Luminaire Tested: FLR2-22-35-L835-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973555
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-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

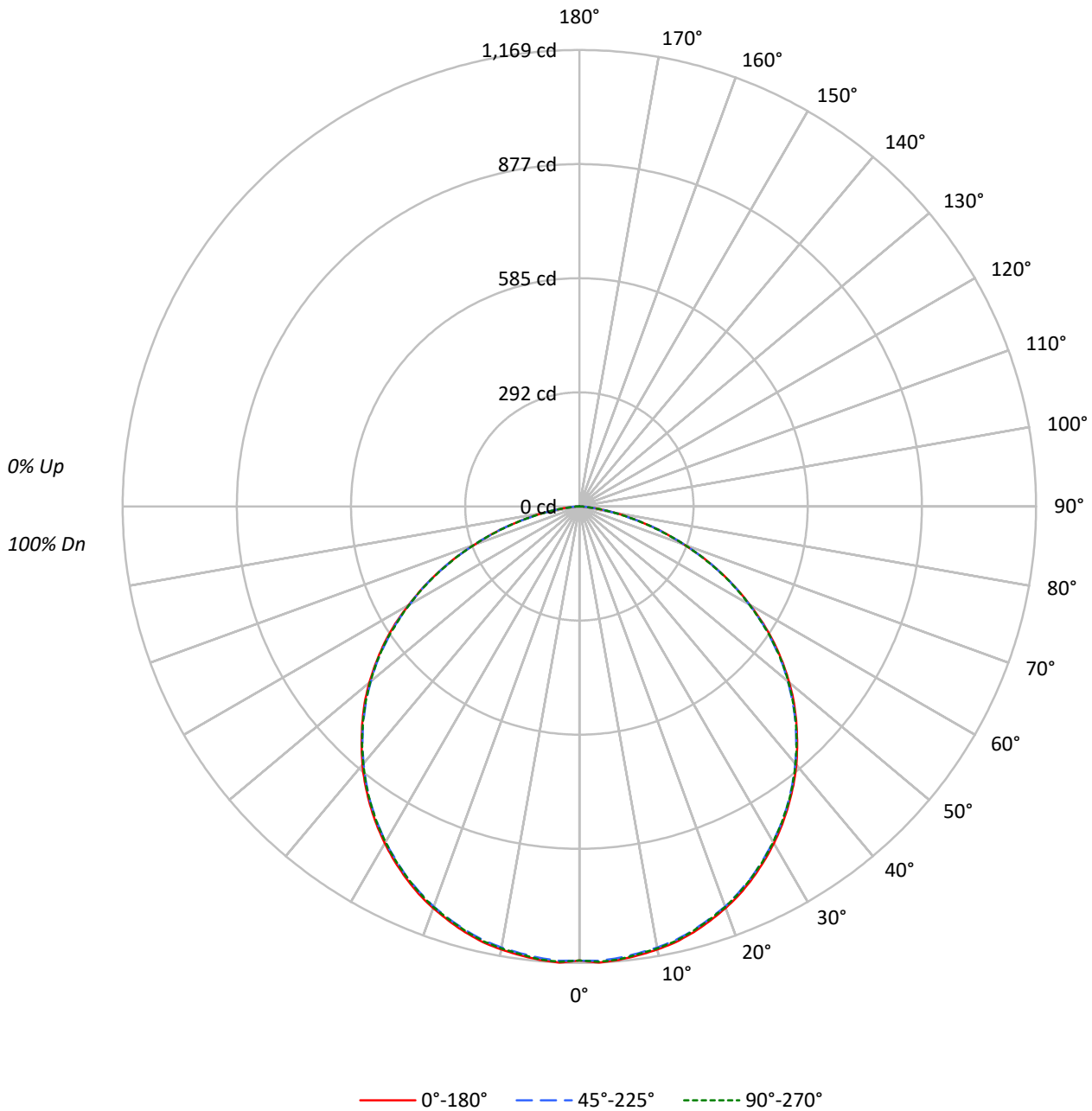
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3252.0 lumens
Efficiency: N/A
Efficacy: 116.6 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				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	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°	3129	3129	3129
5°	3149	3135	3145
10°	3148	3134	3140
15°	3146	3132	3136
20°	3135	3122	3127
25°	3118	3105	3107
30°	3095	3082	3084
35°	3067	3055	3058
40°	3035	3020	3023
45°	2990	2977	2982
50°	2938	2917	2923
55°	2854	2830	2841
60°	2714	2702	2702
65°	2534	2529	2520
70°	2244	2255	2249
75°	1889	1875	1859
80°	1358	1336	1325
85°	710	710	689

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2990 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	3.4
10°-20°	316.7	9.7
20°-30°	481.2	14.8
30°-40°	581.7	17.9
40°-50°	603.7	18.6
50°-60°	539.8	16.6
60°-70°	392.4	12.1
70°-80°	193.0	5.9
80°-90°	33.5	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°	908.0	27.9
0°-40°	1489.6	45.8
0°-60°	2633.1	81.0
0°-90°	3252.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3252.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1163	1163	1163	1163	1163	
5°	1166	1152	1161	1156	1164	111
15°	1129	1116	1124	1121	1126	319
25°	1050	1039	1046	1044	1046	484
35°	934	927	930	931	931	584
45°	786	782	782	784	784	606
55°	608	605	603	605	606	542
65°	398	399	397	397	396	392
75°	182	183	180	181	179	193
85°	23	24	23	23	22	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1162.9	1162.9	1162.9	1162.9	1162.9
2.5°	1169.3	1155.7	1164.3	1159.3	1167.2
5°	1165.7	1152.1	1160.7	1156.4	1164.3
7.5°	1159.3	1145.6	1154.2	1149.9	1156.4
10°	1152.1	1137.7	1147.1	1142.8	1149.2
12.5°	1142.8	1129.1	1137.7	1134.1	1139.9
15°	1129.1	1116.2	1124.1	1121.2	1125.5
17.5°	1112.6	1099.7	1107.6	1105.4	1109.0
20°	1094.6	1082.4	1090.3	1088.2	1091.8
22.5°	1074.5	1061.6	1068.8	1067.3	1070.2
25°	1050.1	1038.6	1045.8	1043.6	1046.5
27.5°	1024.2	1013.5	1019.2	1019.2	1020.7
30°	996.2	986.2	991.9	991.9	992.6
32.5°	966.1	958.2	961.8	962.5	962.5
35°	933.7	927.3	930.1	930.9	930.9
37.5°	900.0	893.5	895.7	897.1	897.1
40°	864.1	858.3	859.8	861.2	860.5
42.5°	825.3	821.0	821.7	823.1	823.1
45°	785.8	782.2	782.2	783.6	783.6
47.5°	745.6	742.0	740.5	742.0	742.0
50°	701.7	698.2	696.7	698.2	698.2
52.5°	655.8	652.2	652.2	652.2	652.9
55°	608.4	604.8	603.3	604.8	605.5
57.5°	558.1	556.7	554.5	555.2	553.1
60°	504.2	504.2	502.1	503.5	502.1
62.5°	451.8	453.2	451.1	451.1	449.6
65°	397.9	399.4	397.2	397.2	395.8
67.5°	342.6	344.8	341.9	341.9	340.5
70°	285.2	289.5	286.6	287.3	285.9
72.5°	233.4	235.6	232.7	232.7	231.3
75°	181.7	183.2	180.3	181.0	178.8
77.5°	130.7	132.9	130.0	130.7	130.0
80°	87.6	88.3	86.2	86.9	85.5
82.5°	51.0	51.7	51.0	50.3	49.6
85°	23.0	23.7	23.0	23.0	22.3
87.5°	5.7	5.7	5.7	5.7	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)