

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: P974211

Luminaire Tested: FLR2-24-35-L835-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-35-L835-CA080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L835-CA080
Ballast/Driver: -

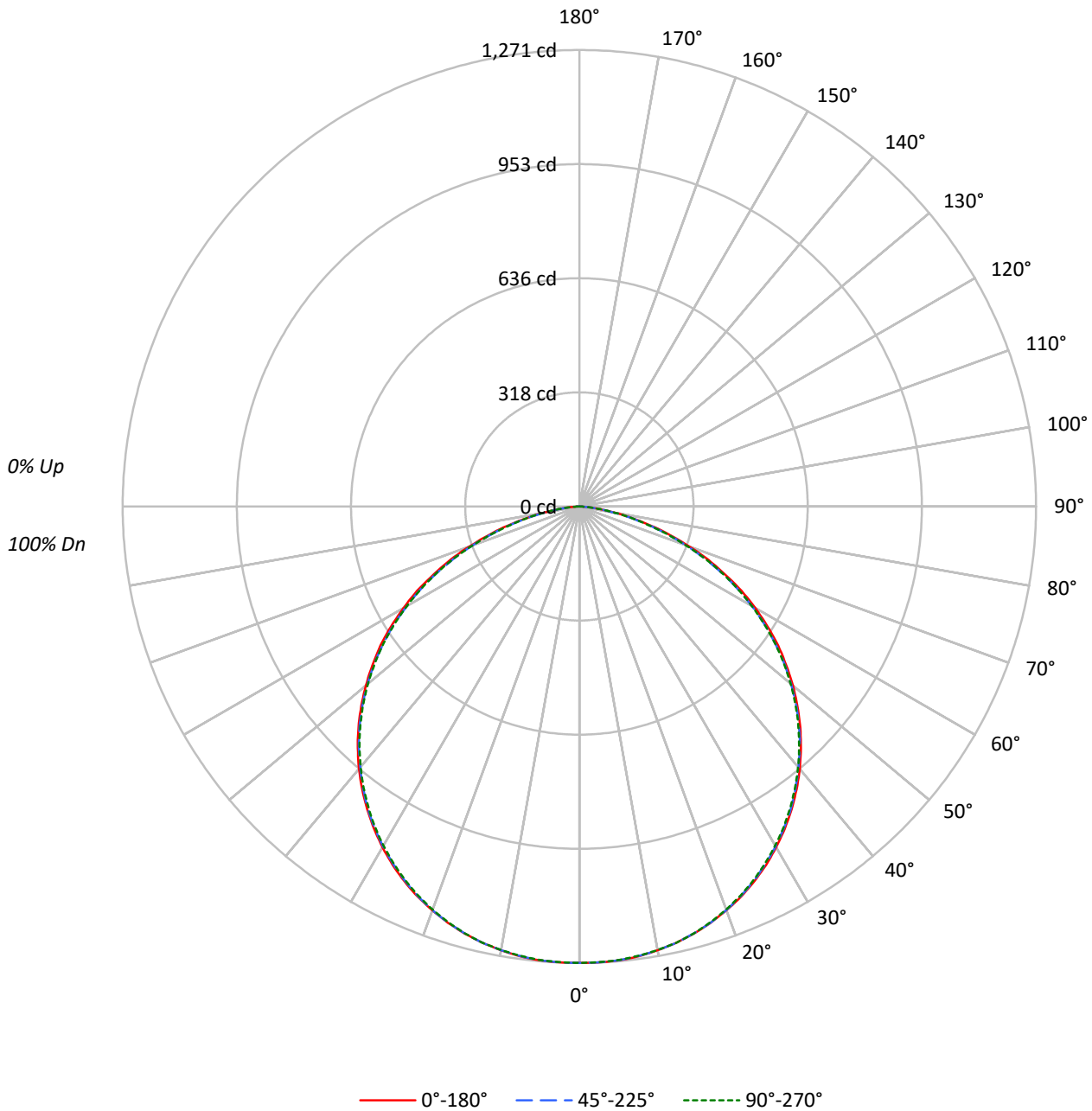
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3592.0 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28.4
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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85					85															
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51					51															
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44					44															
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38					38															
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34															
8	61	47	39	33	59	47	38	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	39	33	29	27					27															
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25					25															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1710	1710	1710
5°	1713	1713	1712
10°	1715	1714	1713
15°	1715	1714	1714
20°	1713	1713	1710
25°	1710	1707	1704
30°	1702	1698	1694
35°	1691	1687	1681
40°	1676	1666	1663
45°	1655	1645	1640
50°	1624	1611	1607
55°	1585	1563	1561
60°	1519	1492	1492
65°	1421	1388	1392
70°	1279	1240	1236
75°	1074	1031	1027
80°	784	745	777
85°	443	408	415

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1655 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.6	3.4
10°-20°	347.5	9.7
20°-30°	529.9	14.8
30°-40°	642.0	17.9
40°-50°	666.8	18.6
50°-60°	596.5	16.6
60°-70°	434.8	12.1
70°-80°	215.3	6.0
80°-90°	38.5	1.1
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°	998.0	27.8
0°-40°	1640.0	45.7
0°-60°	2903.4	80.8
0°-90°	3592.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3592.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1271	1271	1271	1271	1271	
5°	1269	1269	1269	1269	1268	121
15°	1231	1231	1231	1232	1231	348
25°	1152	1150	1150	1149	1148	531
35°	1030	1028	1027	1025	1023	644
45°	870	868	865	863	862	670
55°	676	671	666	666	665	602
65°	446	443	436	438	437	443
75°	207	203	198	202	198	220
85°	29	26	26	27	27	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1270.9	1270.9	1270.9	1270.9	1270.9
2.5°	1270.9	1270.5	1270.5	1270.9	1270.0
5°	1268.6	1269.1	1268.6	1268.6	1267.7
7.5°	1263.6	1263.2	1262.7	1263.2	1261.8
10°	1254.9	1254.9	1254.5	1254.9	1254.0
12.5°	1244.5	1244.5	1244.5	1244.9	1244.5
15°	1231.2	1230.8	1230.8	1231.7	1230.8
17.5°	1215.7	1215.3	1215.3	1214.8	1213.9
20°	1196.6	1196.6	1196.1	1195.7	1194.3
22.5°	1176.1	1175.6	1174.2	1174.2	1172.4
25°	1151.9	1150.5	1149.6	1149.2	1147.8
27.5°	1125.4	1123.6	1122.2	1121.3	1120.0
30°	1095.8	1094.0	1092.6	1091.2	1090.3
32.5°	1063.9	1063.0	1060.7	1060.2	1058.4
35°	1029.7	1028.3	1026.9	1025.1	1023.3
37.5°	993.2	991.8	988.6	987.7	986.4
40°	954.4	952.6	948.5	948.5	947.1
42.5°	912.9	911.1	908.4	906.6	905.6
45°	869.6	867.8	864.6	862.8	861.9
47.5°	823.6	822.2	818.5	817.2	815.8
50°	775.7	773.9	769.7	768.8	767.5
52.5°	725.5	724.6	719.1	718.7	717.3
55°	675.8	670.8	666.2	666.2	665.3
57.5°	621.1	617.4	611.5	611.5	610.6
60°	564.5	561.4	554.5	555.4	554.5
62.5°	509.4	502.5	496.1	498.9	496.6
65°	446.4	442.8	435.9	437.8	437.3
67.5°	389.0	382.1	375.8	379.4	377.6
70°	325.1	321.5	315.1	318.8	314.2
72.5°	264.9	261.8	255.4	259.5	254.9
75°	206.6	203.4	198.4	202.0	197.5
77.5°	151.4	149.1	144.6	148.2	149.1
80°	101.2	98.5	96.2	99.4	100.3
82.5°	59.3	57.5	56.5	57.0	59.3
85°	28.7	26.4	26.4	26.9	26.9
87.5°	7.8	6.8	7.8	8.2	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)