

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: P974171

Luminaire Tested: FLR2-24-35-L835-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974171
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-CP080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L835-CP080
Ballast/Driver: -

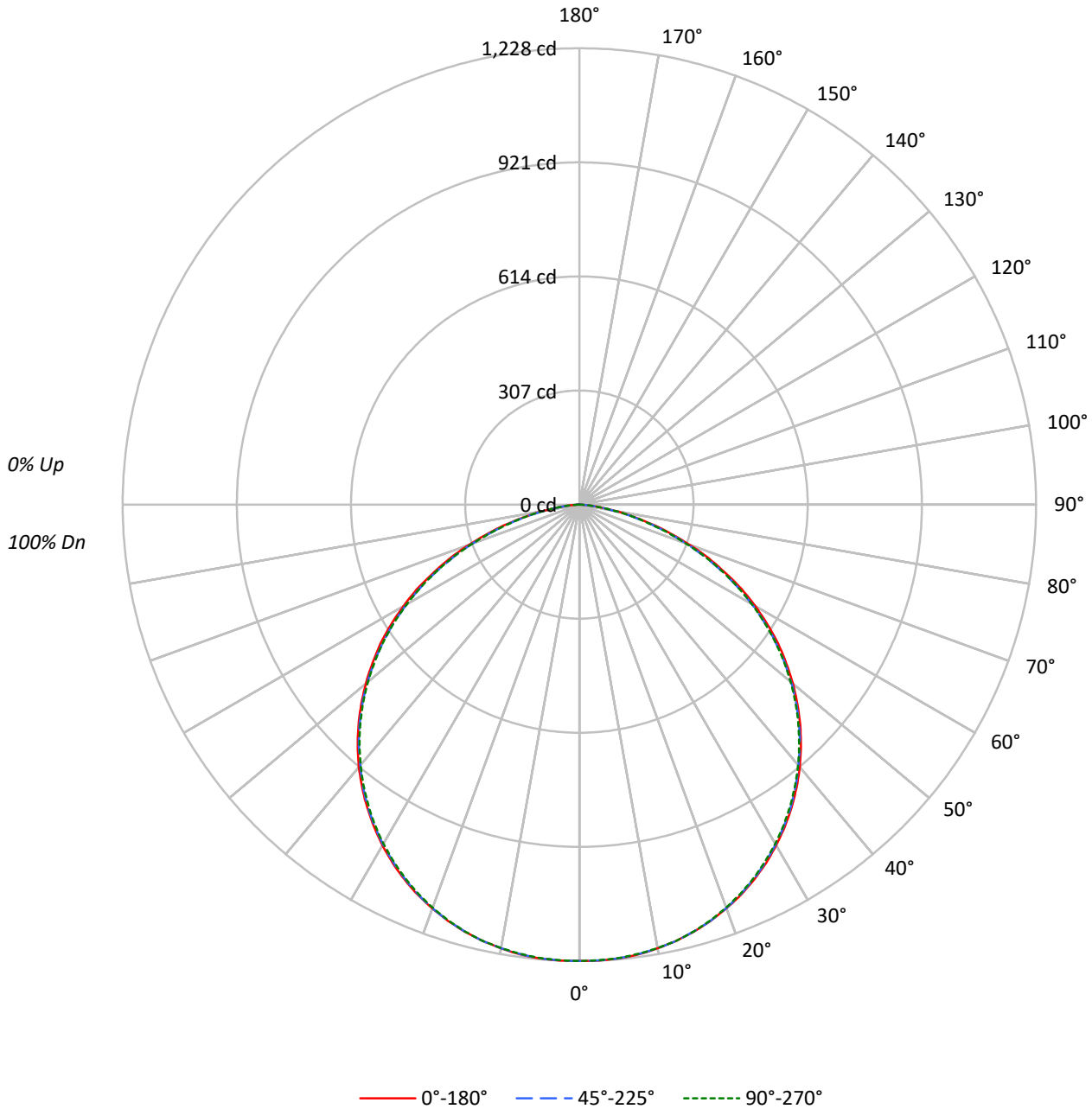
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3470.6 lumens
Efficiency: N/A
Efficacy: 122.2 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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CATALOG NUMBER: FLR2-24-35-L835-CP080

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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	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	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1652	1652	1652
5°	1655	1655	1654
10°	1657	1656	1655
15°	1657	1656	1656
20°	1655	1655	1652
25°	1652	1649	1646
30°	1645	1640	1637
35°	1634	1630	1624
40°	1620	1610	1607
45°	1599	1590	1584
50°	1569	1557	1552
55°	1532	1510	1508
60°	1468	1442	1442
65°	1373	1341	1345
70°	1236	1198	1194
75°	1038	997	992
80°	758	721	751
85°	429	395	401

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1599 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.6	3.4
10°-20°	335.8	9.7
20°-30°	512.0	14.8
30°-40°	620.3	17.9
40°-50°	644.3	18.6
50°-60°	576.4	16.6
60°-70°	420.1	12.1
70°-80°	208.0	6.0
80°-90°	37.2	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°	964.3	27.8
0°-40°	1584.6	45.7
0°-60°	2805.3	80.8
0°-90°	3470.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3470.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1228	1228	1228	1228	1228	
5°	1226	1226	1226	1226	1225	117
15°	1190	1189	1189	1190	1189	336
25°	1113	1112	1111	1110	1109	513
35°	995	994	992	990	989	622
45°	840	838	835	834	833	648
55°	653	648	644	644	643	582
65°	431	428	421	423	422	428
75°	200	196	192	195	191	213
85°	28	26	26	26	26	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1228.0	1228.0	1228.0	1228.0	1228.0
2.5°	1228.0	1227.5	1227.5	1228.0	1227.1
5°	1225.7	1226.2	1225.7	1225.7	1224.9
7.5°	1220.9	1220.5	1220.0	1220.5	1219.1
10°	1212.5	1212.5	1212.1	1212.5	1211.6
12.5°	1202.4	1202.4	1202.4	1202.8	1202.4
15°	1189.6	1189.2	1189.2	1190.1	1189.2
17.5°	1174.6	1174.2	1174.2	1173.8	1172.9
20°	1156.1	1156.1	1155.7	1155.3	1153.9
22.5°	1136.3	1135.9	1134.5	1134.5	1132.8
25°	1113.0	1111.6	1110.8	1110.3	1109.0
27.5°	1087.4	1085.6	1084.3	1083.4	1082.1
30°	1058.8	1057.0	1055.7	1054.4	1053.5
32.5°	1027.9	1027.0	1024.8	1024.4	1022.6
35°	994.9	993.6	992.2	990.5	988.7
37.5°	959.6	958.3	955.2	954.3	953.0
40°	922.2	920.4	916.4	916.4	915.1
42.5°	882.1	880.3	877.7	875.9	875.0
45°	840.2	838.5	835.4	833.6	832.7
47.5°	795.7	794.4	790.9	789.6	788.2
50°	749.5	747.7	743.7	742.9	741.5
52.5°	701.0	700.1	694.8	694.4	693.1
55°	653.0	648.1	643.7	643.7	642.8
57.5°	600.1	596.6	590.8	590.8	590.0
60°	545.5	542.4	535.8	536.7	535.8
62.5°	492.1	485.5	479.4	482.0	479.8
65°	431.3	427.8	421.2	423.0	422.5
67.5°	375.8	369.2	363.1	366.6	364.8
70°	314.1	310.6	304.5	308.0	303.6
72.5°	256.0	252.9	246.7	250.7	246.3
75°	199.6	196.5	191.7	195.2	190.8
77.5°	146.3	144.1	139.7	143.2	144.1
80°	97.8	95.2	93.0	96.1	96.9
82.5°	57.3	55.5	54.6	55.1	57.3
85°	27.8	25.6	25.6	26.0	26.0
87.5°	7.5	6.6	7.5	7.9	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)