

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: P974204

Luminaire Tested: FLR2-24-40-L835-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974204
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: FLR2-24-40-L835-CP375
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-40-L835-CP375
Ballast/Driver: -

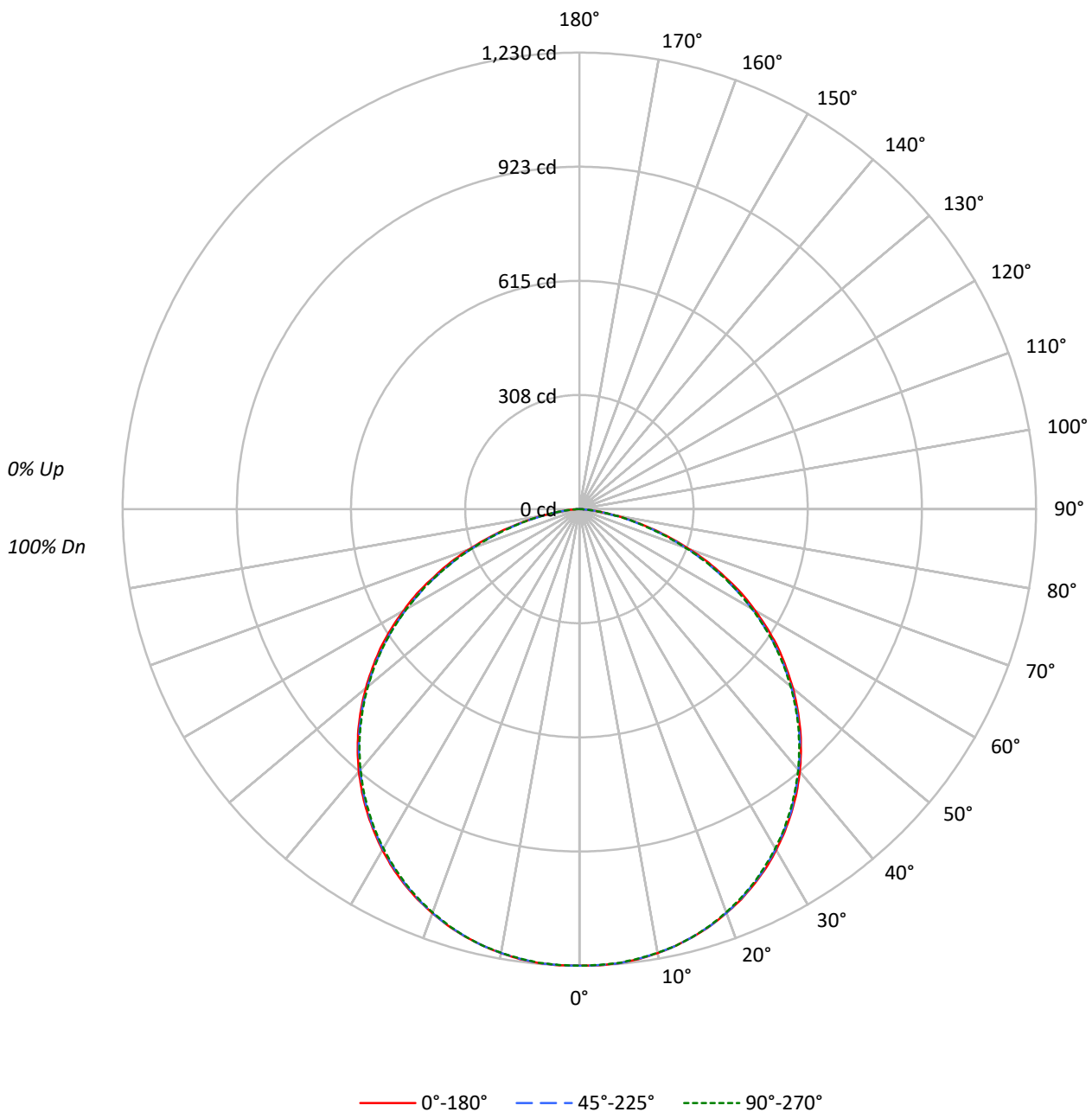
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3476.9 lumens
Efficiency: N/A
Efficacy: 114.7 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): 30.3
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	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°	1655	1655	1655
5°	1659	1659	1657
10°	1660	1659	1658
15°	1660	1660	1660
20°	1658	1658	1655
25°	1655	1652	1649
30°	1648	1643	1640
35°	1637	1633	1627
40°	1623	1613	1610
45°	1602	1592	1588
50°	1572	1560	1555
55°	1535	1513	1511
60°	1471	1444	1444
65°	1376	1344	1348
70°	1238	1200	1196
75°	1040	998	993
80°	759	721	752
85°	429	395	401

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1602 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.8	3.4
10°-20°	336.4	9.7
20°-30°	512.9	14.8
30°-40°	621.4	17.9
40°-50°	645.5	18.6
50°-60°	577.4	16.6
60°-70°	420.8	12.1
70°-80°	208.4	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°	966.1	27.8
0°-40°	1587.5	45.7
0°-60°	2810.4	80.8
0°-90°	3476.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3476.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1230	1230	1230	1230	1230	
5°	1228	1228	1228	1228	1227	117
15°	1192	1191	1191	1192	1191	336
25°	1115	1114	1113	1112	1111	514
35°	997	995	994	992	990	623
45°	842	840	837	835	834	649
55°	654	649	645	645	644	583
65°	432	429	422	424	423	428
75°	200	197	192	196	191	213
85°	28	26	26	26	26	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1230.2	1230.2	1230.2	1230.2	1230.2
2.5°	1230.2	1229.8	1229.8	1230.2	1229.3
5°	1228.0	1228.4	1228.0	1228.0	1227.1
7.5°	1223.1	1222.7	1222.2	1222.7	1221.4
10°	1214.7	1214.7	1214.3	1214.7	1213.9
12.5°	1204.6	1204.6	1204.6	1205.0	1204.6
15°	1191.8	1191.4	1191.4	1192.2	1191.4
17.5°	1176.8	1176.3	1176.3	1175.9	1175.0
20°	1158.2	1158.2	1157.8	1157.4	1156.0
22.5°	1138.4	1137.9	1136.6	1136.6	1134.9
25°	1115.0	1113.7	1112.8	1112.3	1111.0
27.5°	1089.4	1087.6	1086.3	1085.4	1084.1
30°	1060.7	1058.9	1057.6	1056.3	1055.4
32.5°	1029.8	1028.9	1026.7	1026.3	1024.5
35°	996.7	995.4	994.0	992.3	990.5
37.5°	961.4	960.1	957.0	956.1	954.8
40°	923.9	922.1	918.1	918.1	916.8
42.5°	883.7	881.9	879.3	877.5	876.6
45°	841.8	840.0	836.9	835.1	834.3
47.5°	797.2	795.9	792.3	791.0	789.7
50°	750.8	749.1	745.1	744.2	742.9
52.5°	702.3	701.4	696.1	695.7	694.3
55°	654.2	649.3	644.9	644.9	644.0
57.5°	601.2	597.7	591.9	591.9	591.0
60°	546.5	543.4	536.7	537.6	536.7
62.5°	493.0	486.4	480.2	482.9	480.7
65°	432.1	428.6	422.0	423.7	423.3
67.5°	376.5	369.9	363.7	367.2	365.5
70°	314.7	311.2	305.0	308.5	304.1
72.5°	256.5	253.4	247.2	251.2	246.7
75°	200.0	196.9	192.0	195.5	191.1
77.5°	146.5	144.3	139.9	143.5	144.3
80°	98.0	95.3	93.1	96.2	97.1
82.5°	57.4	55.6	54.7	55.2	57.4
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)