

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: P974492

Luminaire Tested: FLR2-24-40-L950-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974492
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-L950-CA080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-40-L950-CA080
Ballast/Driver: -

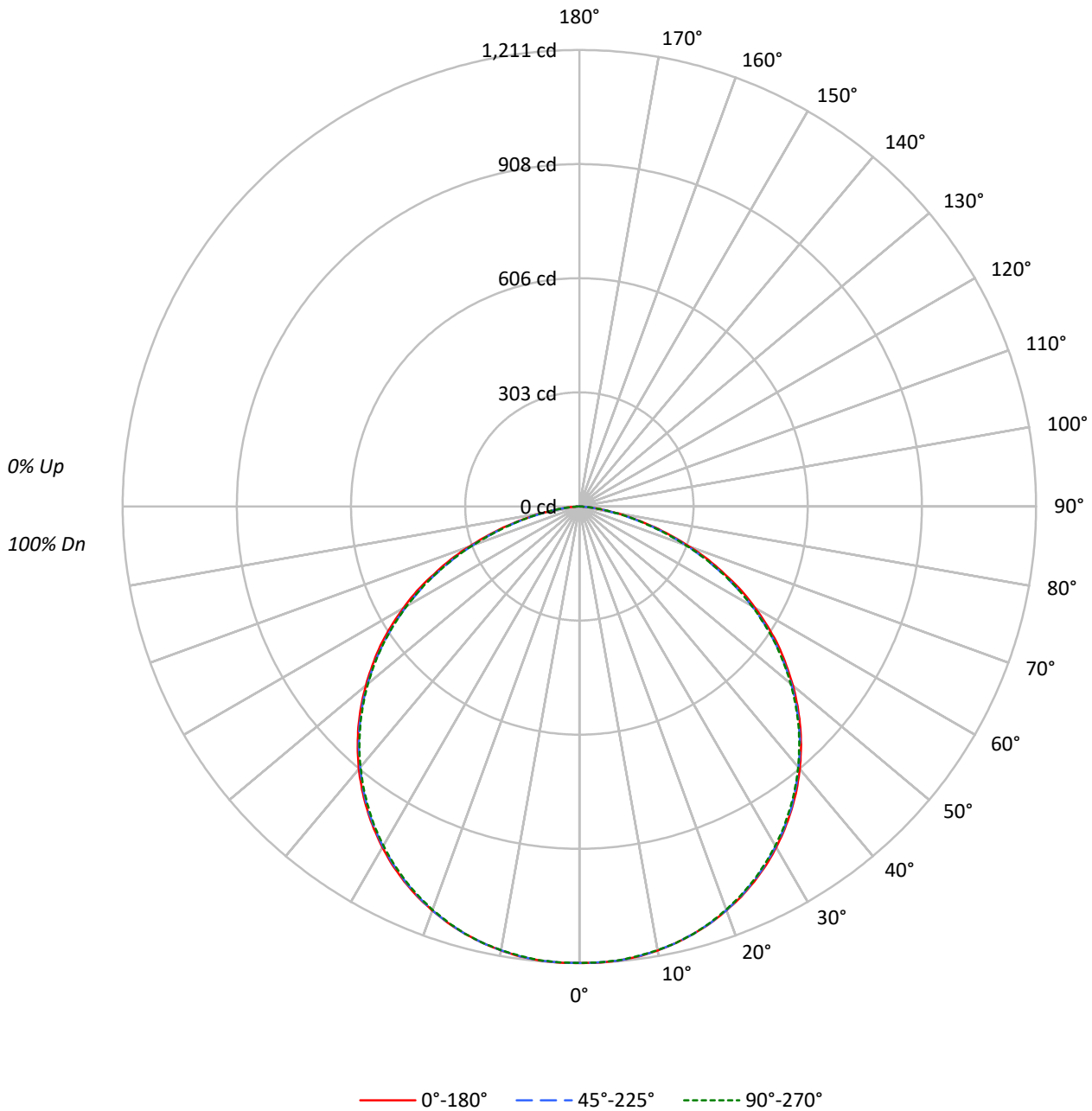
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3423.6 lumens
Efficiency: N/A
Efficacy: 113.0 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									
RC	80									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	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°	1630	1630	1630
5°	1633	1633	1632
10°	1634	1634	1633
15°	1635	1634	1634
20°	1633	1632	1630
25°	1630	1627	1624
30°	1623	1618	1615
35°	1612	1608	1602
40°	1598	1588	1586
45°	1577	1568	1563
50°	1548	1536	1531
55°	1511	1490	1487
60°	1448	1422	1422
65°	1355	1323	1327
70°	1219	1181	1178
75°	1024	983	978
80°	748	711	741
85°	423	389	395

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1577 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.0	3.4
10°-20°	331.2	9.7
20°-30°	505.0	14.8
30°-40°	611.9	17.9
40°-50°	635.6	18.6
50°-60°	568.6	16.6
60°-70°	414.4	12.1
70°-80°	205.2	6.0
80°-90°	36.7	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°	951.2	27.8
0°-40°	1563.1	45.7
0°-60°	2767.3	80.8
0°-90°	3423.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3423.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1211	1211	1211	1211	1211	
5°	1209	1210	1209	1209	1208	115
15°	1174	1173	1173	1174	1173	331
25°	1098	1097	1096	1095	1094	506
35°	981	980	979	977	975	614
45°	829	827	824	822	822	639
55°	644	639	635	635	634	574
65°	426	422	416	417	417	422
75°	197	194	189	192	188	210
85°	27	25	25	26	26	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1211.3	1211.3	1211.3	1211.3	1211.3
2.5°	1211.3	1210.9	1210.9	1211.3	1210.5
5°	1209.2	1209.6	1209.2	1209.2	1208.3
7.5°	1204.4	1203.9	1203.5	1203.9	1202.6
10°	1196.1	1196.1	1195.7	1196.1	1195.2
12.5°	1186.1	1186.1	1186.1	1186.6	1186.1
15°	1173.5	1173.1	1173.1	1173.9	1173.1
17.5°	1158.7	1158.3	1158.3	1157.9	1157.0
20°	1140.5	1140.5	1140.0	1139.6	1138.3
22.5°	1120.9	1120.5	1119.2	1119.2	1117.4
25°	1097.9	1096.6	1095.7	1095.3	1094.0
27.5°	1072.7	1070.9	1069.6	1068.8	1067.5
30°	1044.4	1042.7	1041.4	1040.1	1039.2
32.5°	1014.0	1013.1	1011.0	1010.5	1008.8
35°	981.4	980.1	978.8	977.1	975.3
37.5°	946.6	945.3	942.3	941.4	940.1
40°	909.7	908.0	904.0	904.0	902.7
42.5°	870.1	868.4	865.8	864.1	863.2
45°	828.8	827.1	824.1	822.3	821.5
47.5°	785.0	783.6	780.2	778.9	777.6
50°	739.3	737.6	733.7	732.8	731.5
52.5°	691.5	690.6	685.4	685.0	683.7
55°	644.1	639.3	635.0	635.0	634.1
57.5°	592.0	588.5	582.8	582.8	582.0
60°	538.1	535.0	528.5	529.4	528.5
62.5°	485.5	479.0	472.9	475.5	473.3
65°	425.5	422.0	415.5	417.2	416.8
67.5°	370.7	364.2	358.1	361.6	359.9
70°	309.9	306.4	300.3	303.8	299.5
72.5°	252.5	249.5	243.4	247.3	243.0
75°	196.9	193.8	189.1	192.5	188.2
77.5°	144.3	142.1	137.8	141.3	142.1
80°	96.5	93.9	91.7	94.8	95.6
82.5°	56.5	54.8	53.9	54.3	56.5
85°	27.4	25.2	25.2	25.6	25.6
87.5°	7.4	6.5	7.4	7.8	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)