

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: P974308

Luminaire Tested: FLR2-24-40-L840-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974308
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-L840-CP250
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-40-L840-CP250
Ballast/Driver: -

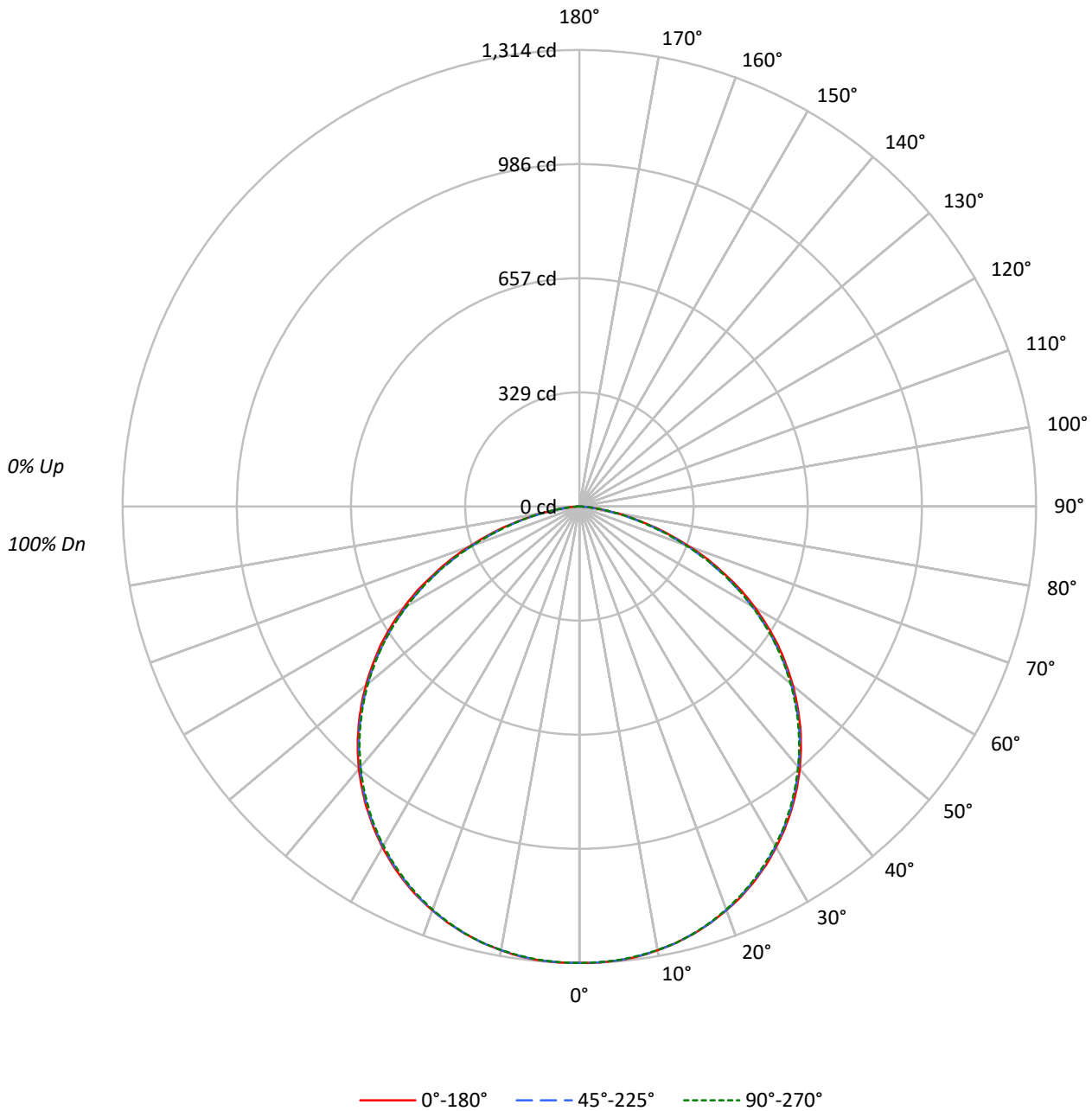
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3713.6 lumens
Efficiency: N/A
Efficacy: 122.6 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°	1768	1768	1768
5°	1771	1771	1770
10°	1773	1772	1771
15°	1773	1773	1773
20°	1771	1771	1768
25°	1768	1764	1762
30°	1760	1755	1751
35°	1749	1744	1738
40°	1733	1722	1720
45°	1711	1701	1696
50°	1679	1666	1661
55°	1639	1616	1614
60°	1571	1543	1543
65°	1470	1435	1439
70°	1323	1282	1278
75°	1110	1066	1061
80°	811	771	804
85°	459	421	429

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1711 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	3.4
10°-20°	359.3	9.7
20°-30°	547.8	14.8
30°-40°	663.7	17.9
40°-50°	689.4	18.6
50°-60°	616.7	16.6
60°-70°	449.5	12.1
70°-80°	222.6	6.0
80°-90°	39.8	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°	1031.8	27.8
0°-40°	1695.6	45.7
0°-60°	3001.7	80.8
0°-90°	3713.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3713.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1314	1314	1314	1314	1314	
5°	1312	1312	1312	1312	1311	125
15°	1273	1272	1272	1273	1272	359
25°	1191	1190	1188	1188	1187	549
35°	1065	1063	1062	1060	1058	666
45°	899	897	894	892	891	693
55°	699	694	689	689	688	623
65°	462	458	451	453	452	458
75°	214	210	205	209	204	228
85°	30	27	27	28	28	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1314.0	1314.0	1314.0	1314.0	1314.0
2.5°	1314.0	1313.5	1313.5	1314.0	1313.0
5°	1311.6	1312.1	1311.6	1311.6	1310.7
7.5°	1306.4	1305.9	1305.5	1305.9	1304.5
10°	1297.5	1297.5	1297.0	1297.5	1296.5
12.5°	1286.6	1286.6	1286.6	1287.1	1286.6
15°	1272.9	1272.5	1272.5	1273.4	1272.5
17.5°	1256.9	1256.4	1256.4	1256.0	1255.0
20°	1237.1	1237.1	1236.6	1236.2	1234.8
22.5°	1215.9	1215.4	1214.0	1214.0	1212.1
25°	1190.9	1189.5	1188.5	1188.1	1186.7
27.5°	1163.6	1161.7	1160.3	1159.3	1157.9
30°	1132.9	1131.0	1129.6	1128.2	1127.3
32.5°	1099.9	1099.0	1096.6	1096.1	1094.3
35°	1064.6	1063.1	1061.7	1059.8	1058.0
37.5°	1026.8	1025.4	1022.1	1021.2	1019.8
40°	986.8	984.9	980.6	980.6	979.2
42.5°	943.9	942.0	939.1	937.3	936.3
45°	899.1	897.2	893.9	892.0	891.1
47.5°	851.5	850.0	846.3	844.9	843.4
50°	802.0	800.1	795.8	794.9	793.5
52.5°	750.1	749.1	743.5	743.0	741.6
55°	698.7	693.5	688.8	688.8	687.9
57.5°	642.1	638.4	632.2	632.2	631.3
60°	583.7	580.4	573.3	574.2	573.3
62.5°	526.6	519.5	512.9	515.8	513.4
65°	461.6	457.8	450.7	452.6	452.1
67.5°	402.2	395.1	388.5	392.3	390.4
70°	336.2	332.4	325.8	329.5	324.8
72.5°	273.9	270.6	264.0	268.3	263.5
75°	213.6	210.3	205.1	208.9	204.1
77.5°	156.5	154.2	149.5	153.2	154.2
80°	104.7	101.8	99.5	102.8	103.7
82.5°	61.3	59.4	58.5	58.9	61.3
85°	29.7	27.3	27.3	27.8	27.8
87.5°	8.0	7.1	8.0	8.5	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)