

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: P974292

Luminaire Tested: FLR2-24-40-L840-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974292
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-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-40-L840-CP125
Ballast/Driver: -

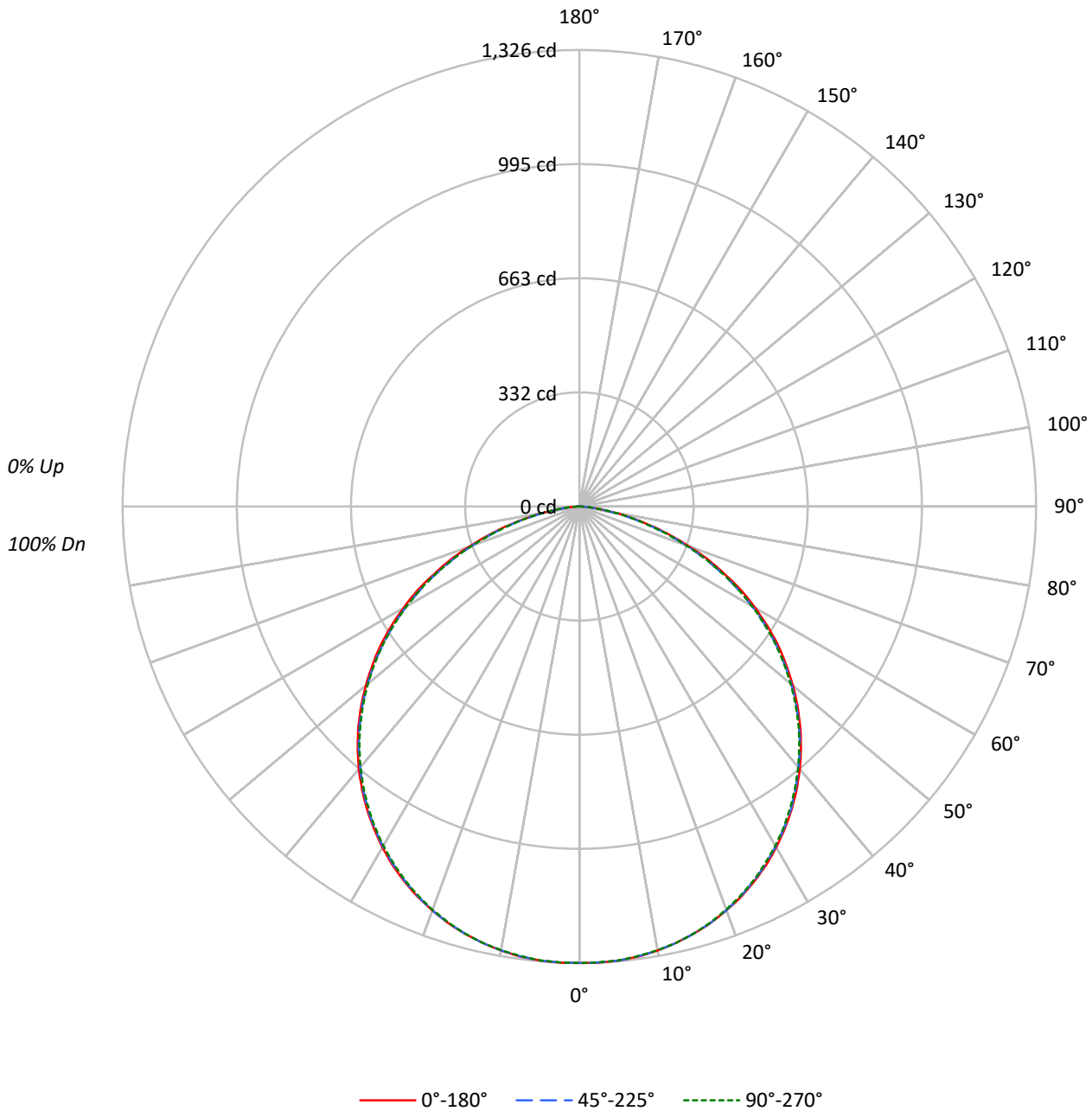
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3748.5 lumens
Efficiency: N/A
Efficacy: 123.7 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°	1785	1785	1785
5°	1788	1788	1787
10°	1789	1789	1788
15°	1790	1789	1789
20°	1788	1787	1785
25°	1785	1781	1778
30°	1777	1771	1768
35°	1765	1760	1754
40°	1749	1738	1736
45°	1727	1717	1711
50°	1694	1681	1676
55°	1654	1631	1629
60°	1585	1557	1557
65°	1483	1448	1453
70°	1335	1293	1290
75°	1121	1076	1071
80°	818	778	811
85°	463	426	434

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1727 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	3.4
10°-20°	362.7	9.7
20°-30°	553.0	14.8
30°-40°	670.0	17.9
40°-50°	695.9	18.6
50°-60°	622.6	16.6
60°-70°	453.7	12.1
70°-80°	224.7	6.0
80°-90°	40.2	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°	1041.5	27.8
0°-40°	1711.5	45.7
0°-60°	3029.9	80.8
0°-90°	3748.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3748.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1326	1326	1326	1326	1326	
5°	1324	1324	1324	1324	1323	126
15°	1285	1284	1284	1285	1284	363
25°	1202	1201	1200	1199	1198	554
35°	1075	1073	1072	1070	1068	672
45°	908	906	902	900	899	699
55°	705	700	695	695	694	628
65°	466	462	455	457	456	462
75°	216	212	207	211	206	230
85°	30	28	28	28	28	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1326.3	1326.3	1326.3	1326.3	1326.3
2.5°	1326.3	1325.8	1325.8	1326.3	1325.3
5°	1323.9	1324.4	1323.9	1323.9	1323.0
7.5°	1318.7	1318.2	1317.7	1318.2	1316.8
10°	1309.6	1309.6	1309.2	1309.6	1308.7
12.5°	1298.7	1298.7	1298.7	1299.2	1298.7
15°	1284.9	1284.4	1284.4	1285.4	1284.4
17.5°	1268.7	1268.2	1268.2	1267.8	1266.8
20°	1248.7	1248.7	1248.3	1247.8	1246.4
22.5°	1227.3	1226.8	1225.4	1225.4	1223.5
25°	1202.1	1200.7	1199.7	1199.2	1197.8
27.5°	1174.5	1172.6	1171.2	1170.2	1168.8
30°	1143.6	1141.7	1140.2	1138.8	1137.8
32.5°	1110.2	1109.3	1106.9	1106.4	1104.5
35°	1074.6	1073.1	1071.7	1069.8	1067.9
37.5°	1036.5	1035.1	1031.7	1030.8	1029.3
40°	996.0	994.1	989.8	989.8	988.4
42.5°	952.7	950.8	948.0	946.1	945.1
45°	907.5	905.6	902.3	900.4	899.4
47.5°	859.5	858.0	854.2	852.8	851.4
50°	809.5	807.6	803.3	802.3	800.9
52.5°	757.1	756.2	750.5	750.0	748.6
55°	705.3	700.0	695.3	695.3	694.3
57.5°	648.2	644.4	638.2	638.2	637.2
60°	589.1	585.8	578.7	579.6	578.7
62.5°	531.6	524.4	517.8	520.6	518.2
65°	465.9	462.1	454.9	456.9	456.4
67.5°	405.9	398.8	392.1	395.9	394.0
70°	339.3	335.5	328.8	332.6	327.9
72.5°	276.5	273.2	266.5	270.8	266.0
75°	215.6	212.2	207.0	210.8	206.1
77.5°	158.0	155.6	150.9	154.7	155.6
80°	105.6	102.8	100.4	103.7	104.7
82.5°	61.9	60.0	59.0	59.5	61.9
85°	30.0	27.6	27.6	28.1	28.1
87.5°	8.1	7.1	8.1	8.6	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)