

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: P974284

Luminaire Tested: FLR2-24-40-L840-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974284
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-CP080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-40-L840-CP080
Ballast/Driver: -

Summary

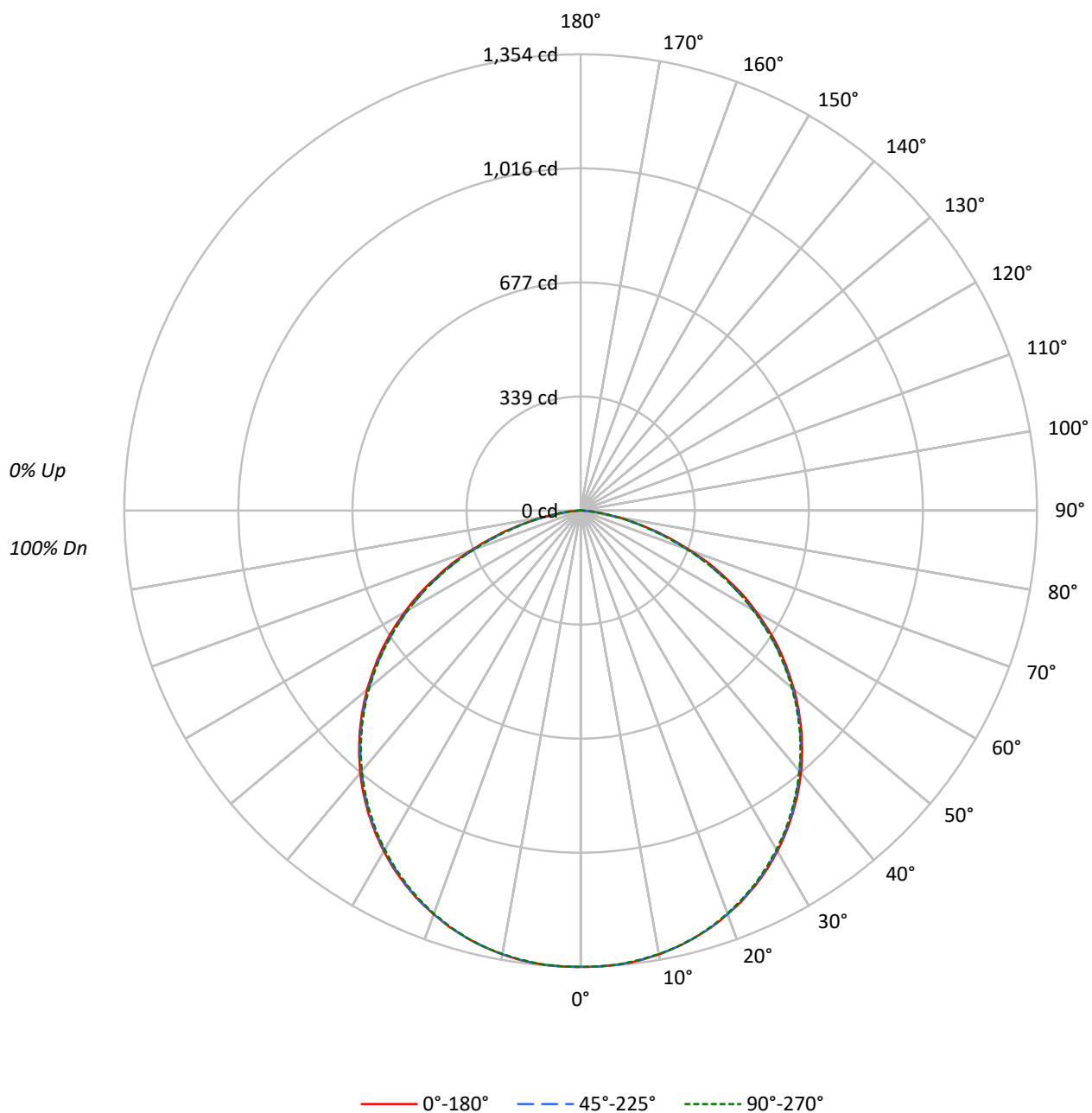
Lumens per Lamp: N/A
Luminaire Lumens: 3828.2 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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°	1822	1822	1822
5°	1826	1826	1825
10°	1827	1827	1826
15°	1828	1827	1827
20°	1826	1825	1822
25°	1822	1819	1816
30°	1814	1809	1805
35°	1803	1798	1791
40°	1787	1776	1773
45°	1764	1753	1748
50°	1730	1717	1712
55°	1690	1666	1663
60°	1619	1590	1590
65°	1515	1479	1484
70°	1363	1321	1317
75°	1145	1099	1094
80°	836	794	828
85°	472	435	443

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1764 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.6	3.4
10°-20°	370.4	9.7
20°-30°	564.7	14.8
30°-40°	684.2	17.9
40°-50°	710.7	18.6
50°-60°	635.8	16.6
60°-70°	463.4	12.1
70°-80°	229.5	6.0
80°-90°	41.0	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°	1063.7	27.8
0°-40°	1747.9	45.7
0°-60°	3094.3	80.8
0°-90°	3828.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3828.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1354	1354	1354	1354	1354	
5°	1352	1352	1352	1352	1351	129
15°	1312	1312	1312	1313	1312	370
25°	1228	1226	1225	1225	1223	566
35°	1097	1096	1094	1092	1091	686
45°	927	925	922	920	918	714
55°	720	715	710	710	709	642
65°	476	472	465	467	466	472
75°	220	217	211	215	210	235
85°	31	28	28	29	29	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1354.5	1354.5	1354.5	1354.5	1354.5
2.5°	1354.5	1354.0	1354.0	1354.5	1353.5
5°	1352.1	1352.5	1352.1	1352.1	1351.1
7.5°	1346.7	1346.2	1345.7	1346.2	1344.8
10°	1337.5	1337.5	1337.0	1337.5	1336.5
12.5°	1326.3	1326.3	1326.3	1326.8	1326.3
15°	1312.2	1311.7	1311.7	1312.7	1311.7
17.5°	1295.7	1295.2	1295.2	1294.7	1293.7
20°	1275.3	1275.3	1274.8	1274.3	1272.8
22.5°	1253.4	1252.9	1251.5	1251.5	1249.5
25°	1227.6	1226.2	1225.2	1224.7	1223.3
27.5°	1199.5	1197.5	1196.1	1195.1	1193.6
30°	1167.9	1165.9	1164.5	1163.0	1162.0
32.5°	1133.8	1132.9	1130.4	1130.0	1128.0
35°	1097.4	1095.9	1094.5	1092.5	1090.6
37.5°	1058.5	1057.1	1053.7	1052.7	1051.2
40°	1017.2	1015.3	1010.9	1010.9	1009.4
42.5°	973.0	971.0	968.1	966.2	965.2
45°	926.8	924.9	921.5	919.5	918.5
47.5°	877.7	876.3	872.4	870.9	869.5
50°	826.7	824.7	820.4	819.4	817.9
52.5°	773.2	772.3	766.4	765.9	764.5
55°	720.3	714.9	710.0	710.0	709.1
57.5°	661.9	658.0	651.7	651.7	650.8
60°	601.7	598.3	591.0	592.0	591.0
62.5°	542.9	535.6	528.8	531.7	529.3
65°	475.8	471.9	464.6	466.6	466.1
67.5°	414.6	407.3	400.5	404.4	402.4
70°	346.5	342.6	335.8	339.7	334.9
72.5°	282.4	279.0	272.2	276.5	271.7
75°	220.2	216.8	211.4	215.3	210.4
77.5°	161.4	158.9	154.1	158.0	158.9
80°	107.9	105.0	102.5	105.9	106.9
82.5°	63.2	61.2	60.3	60.8	63.2
85°	30.6	28.2	28.2	28.7	28.7
87.5°	8.3	7.3	8.3	8.7	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)