

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: P973616

Luminaire Tested: FLR2-22-45-L840-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-45-L840-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

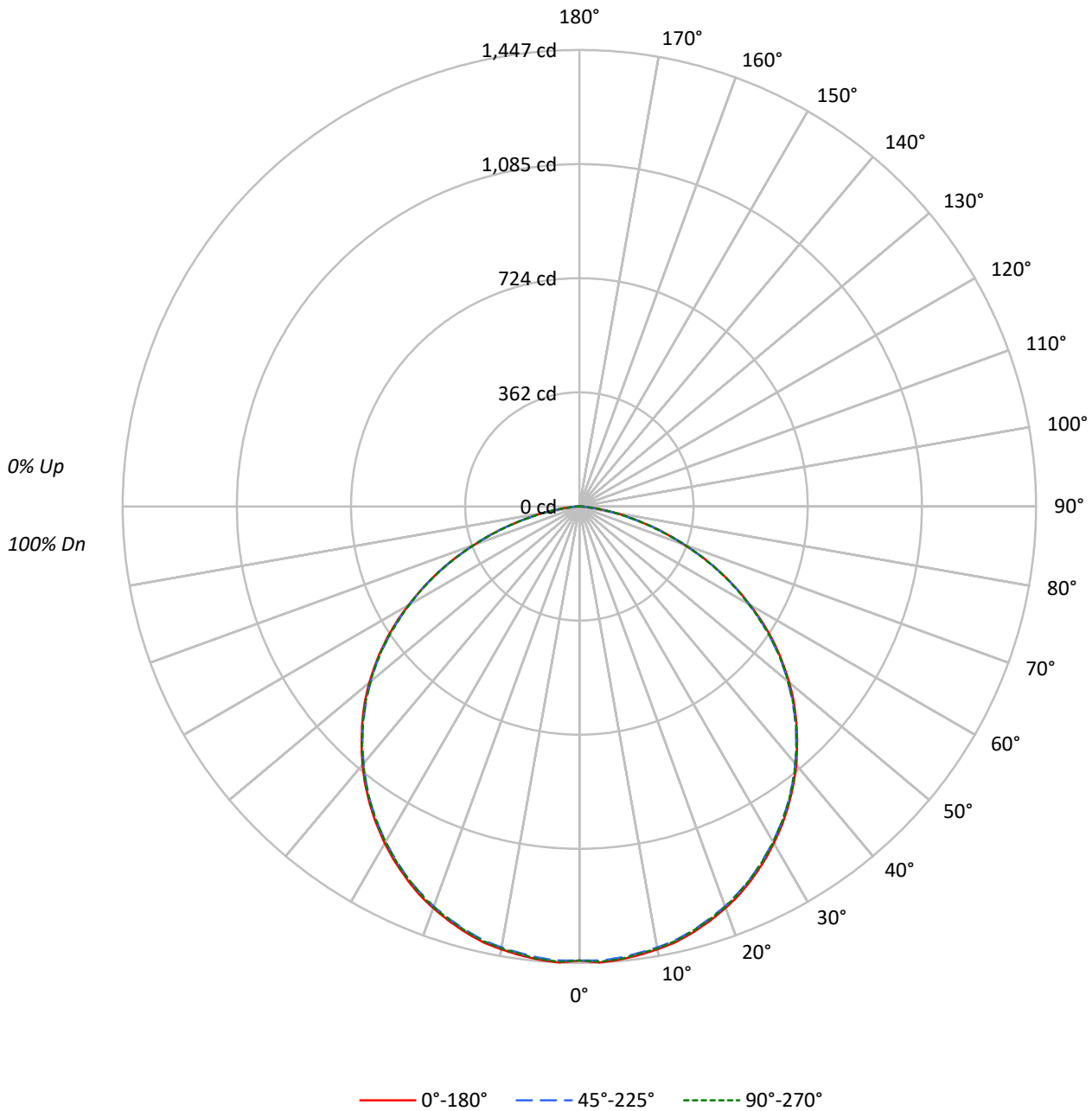
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4024.5 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 36.1
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									70									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	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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85						85														
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51						51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44						44														
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39						39														
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34						34														
8	61	47	39	33	59	47	39	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	40	34	29	27						27														
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25						25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3873	3873	3873
5°	3897	3880	3892
10°	3896	3879	3886
15°	3893	3875	3880
20°	3879	3864	3869
25°	3859	3843	3845
30°	3831	3814	3817
35°	3796	3781	3784
40°	3756	3738	3741
45°	3701	3684	3691
50°	3636	3610	3617
55°	3532	3503	3515
60°	3358	3344	3344
65°	3135	3130	3119
70°	2777	2791	2784
75°	2338	2320	2301
80°	1680	1654	1640
85°	877	877	852

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3701 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.3	3.4
10°-20°	391.9	9.7
20°-30°	595.5	14.8
30°-40°	719.8	17.9
40°-50°	747.1	18.6
50°-60°	668.0	16.6
60°-70°	485.7	12.1
70°-80°	238.8	5.9
80°-90°	41.4	1.0
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°	1123.7	27.9
0°-40°	1843.5	45.8
0°-60°	3258.6	81.0
0°-90°	4024.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4024.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1439	1439	1439	1439	1439	
5°	1443	1426	1436	1431	1441	137
15°	1397	1381	1391	1388	1393	394
25°	1300	1285	1294	1292	1295	599
35°	1156	1148	1151	1152	1152	723
45°	972	968	968	970	970	750
55°	753	748	747	748	749	671
65°	492	494	492	492	490	486
75°	225	227	223	224	221	239
85°	28	29	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°	1439.1	1439.1	1439.1	1439.1	1439.1
2.5°	1447.1	1430.2	1440.9	1434.7	1444.5
5°	1442.7	1425.8	1436.5	1431.1	1440.9
7.5°	1434.7	1417.8	1428.5	1423.1	1431.1
10°	1425.8	1408.0	1419.6	1414.2	1422.2
12.5°	1414.2	1397.3	1408.0	1403.6	1410.7
15°	1397.3	1381.3	1391.1	1387.6	1392.9
17.5°	1376.9	1360.9	1370.7	1368.0	1372.5
20°	1354.7	1339.6	1349.3	1346.7	1351.1
22.5°	1329.8	1313.8	1322.7	1320.9	1324.5
25°	1299.6	1285.3	1294.2	1291.6	1295.1
27.5°	1267.6	1254.2	1261.3	1261.3	1263.1
30°	1232.9	1220.5	1227.6	1227.6	1228.5
32.5°	1195.6	1185.8	1190.2	1191.1	1191.1
35°	1155.6	1147.6	1151.1	1152.0	1152.0
37.5°	1113.8	1105.8	1108.5	1110.2	1110.2
40°	1069.3	1062.2	1064.0	1065.8	1064.9
42.5°	1021.3	1016.0	1016.9	1018.7	1018.7
45°	972.5	968.0	968.0	969.8	969.8
47.5°	922.7	918.2	916.5	918.2	918.2
50°	868.5	864.0	862.2	864.0	864.0
52.5°	811.6	807.1	807.1	807.1	808.0
55°	752.9	748.5	746.7	748.5	749.3
57.5°	690.7	688.9	686.2	687.1	684.5
60°	624.0	624.0	621.3	623.1	621.3
62.5°	559.1	560.9	558.2	558.2	556.5
65°	492.4	494.2	491.6	491.6	489.8
67.5°	424.0	426.7	423.1	423.1	421.3
70°	352.9	358.2	354.7	355.6	353.8
72.5°	288.9	291.6	288.0	288.0	286.2
75°	224.9	226.7	223.1	224.0	221.3
77.5°	161.8	164.4	160.9	161.8	160.9
80°	108.4	109.3	106.7	107.6	105.8
82.5°	63.1	64.0	63.1	62.2	61.3
85°	28.4	29.3	28.4	28.4	27.6
87.5°	7.1	7.1	7.1	7.1	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)