

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: P973572

Luminaire Tested: FLR2-22-45-L835-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973572
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-L835-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

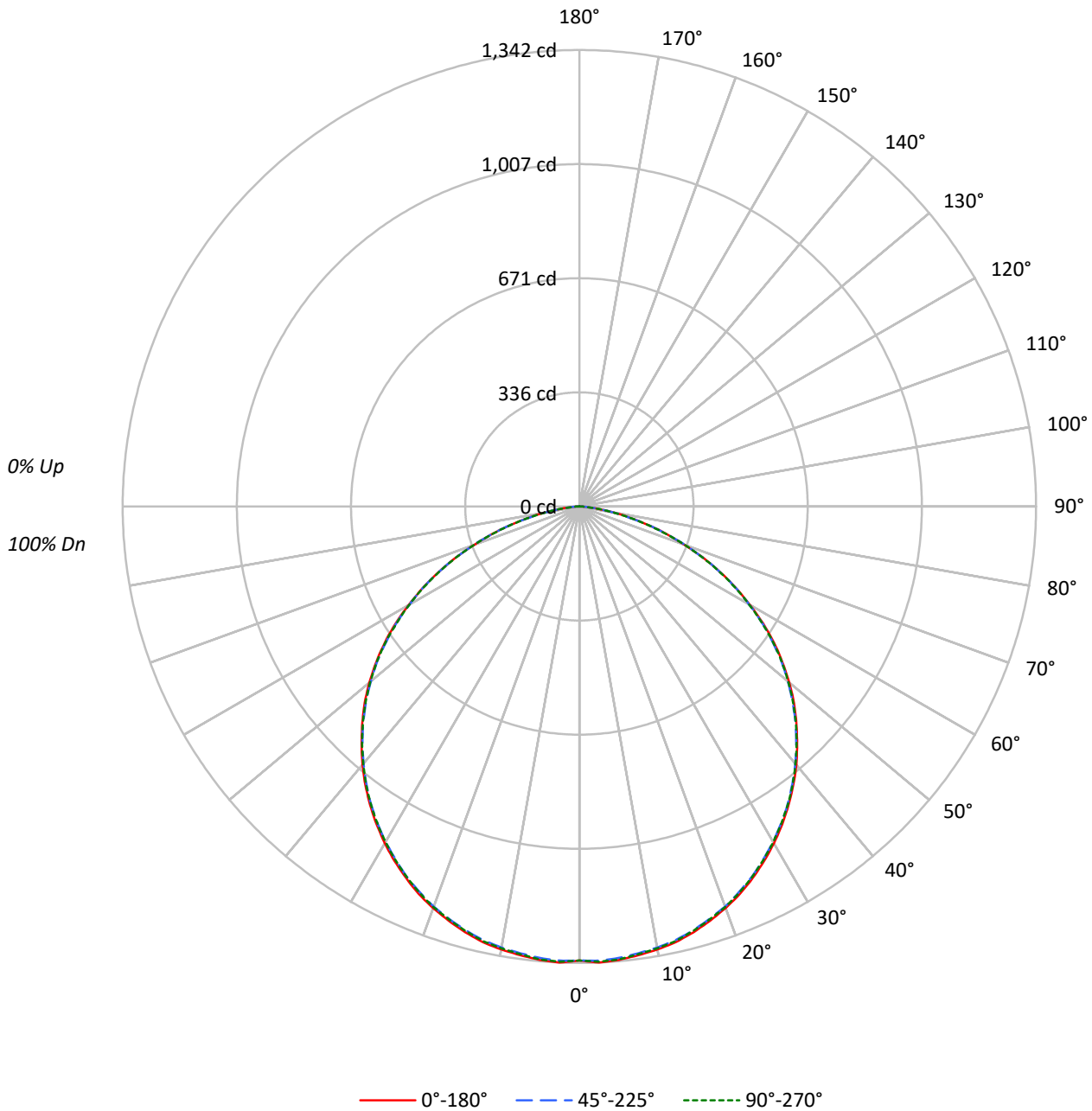
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3732.9 lumens
Efficiency: N/A
Efficacy: 103.4 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				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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	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	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3592	3592	3592
5°	3615	3599	3610
10°	3614	3598	3605
15°	3611	3595	3599
20°	3598	3584	3589
25°	3579	3564	3567
30°	3553	3538	3540
35°	3521	3507	3510
40°	3484	3467	3470
45°	3433	3417	3423
50°	3372	3348	3355
55°	3276	3249	3261
60°	3115	3102	3102
65°	2909	2903	2893
70°	2575	2589	2581
75°	2169	2151	2135
80°	1559	1533	1520
85°	815	815	790

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3433 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.4	3.4
10°-20°	363.5	9.7
20°-30°	552.4	14.8
30°-40°	667.7	17.9
40°-50°	693.0	18.6
50°-60°	619.6	16.6
60°-70°	450.5	12.1
70°-80°	221.5	5.9
80°-90°	38.4	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°	1042.3	27.9
0°-40°	1710.0	45.8
0°-60°	3022.5	81.0
0°-90°	3732.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3732.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1335	1335	1335	1335	1335	
5°	1338	1322	1332	1327	1336	127
15°	1296	1281	1290	1287	1292	366
25°	1205	1192	1200	1198	1201	556
35°	1072	1064	1068	1068	1068	671
45°	902	898	898	900	900	696
55°	698	694	693	694	695	622
65°	457	458	456	456	454	450
75°	209	210	207	208	205	221
85°	26	27	26	26	26	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1334.8	1334.8	1334.8	1334.8	1334.8
2.5°	1342.3	1326.6	1336.5	1330.7	1339.8
5°	1338.1	1322.5	1332.4	1327.4	1336.5
7.5°	1330.7	1315.1	1325.0	1320.0	1327.4
10°	1322.5	1306.0	1316.7	1311.8	1319.2
12.5°	1311.8	1296.1	1306.0	1301.9	1308.5
15°	1296.1	1281.3	1290.3	1287.0	1292.0
17.5°	1277.1	1262.3	1271.4	1268.9	1273.0
20°	1256.5	1242.5	1251.6	1249.1	1253.2
22.5°	1233.4	1218.6	1226.8	1225.2	1228.5
25°	1205.4	1192.2	1200.5	1198.0	1201.3
27.5°	1175.7	1163.4	1169.9	1169.9	1171.6
30°	1143.6	1132.0	1138.6	1138.6	1139.4
32.5°	1108.9	1099.9	1104.0	1104.8	1104.8
35°	1071.8	1064.4	1067.7	1068.5	1068.5
37.5°	1033.1	1025.7	1028.1	1029.8	1029.8
40°	991.9	985.3	986.9	988.6	987.7
42.5°	947.3	942.4	943.2	944.9	944.9
45°	902.0	897.9	897.9	899.5	899.5
47.5°	855.8	851.7	850.0	851.7	851.7
50°	805.5	801.4	799.8	801.4	801.4
52.5°	752.8	748.6	748.6	748.6	749.5
55°	698.3	694.2	692.6	694.2	695.0
57.5°	640.6	639.0	636.5	637.3	634.9
60°	578.8	578.8	576.3	578.0	576.3
62.5°	518.6	520.3	517.8	517.8	516.1
65°	456.8	458.4	455.9	455.9	454.3
67.5°	393.3	395.8	392.5	392.5	390.8
70°	327.3	332.3	329.0	329.8	328.1
72.5°	268.0	270.4	267.1	267.1	265.5
75°	208.6	210.2	206.9	207.8	205.3
77.5°	150.1	152.5	149.2	150.1	149.2
80°	100.6	101.4	98.9	99.8	98.1
82.5°	58.5	59.4	58.5	57.7	56.9
85°	26.4	27.2	26.4	26.4	25.6
87.5°	6.6	6.6	6.6	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)