

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: P973568

Luminaire Tested: FLR2-22-45-L835-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973568
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

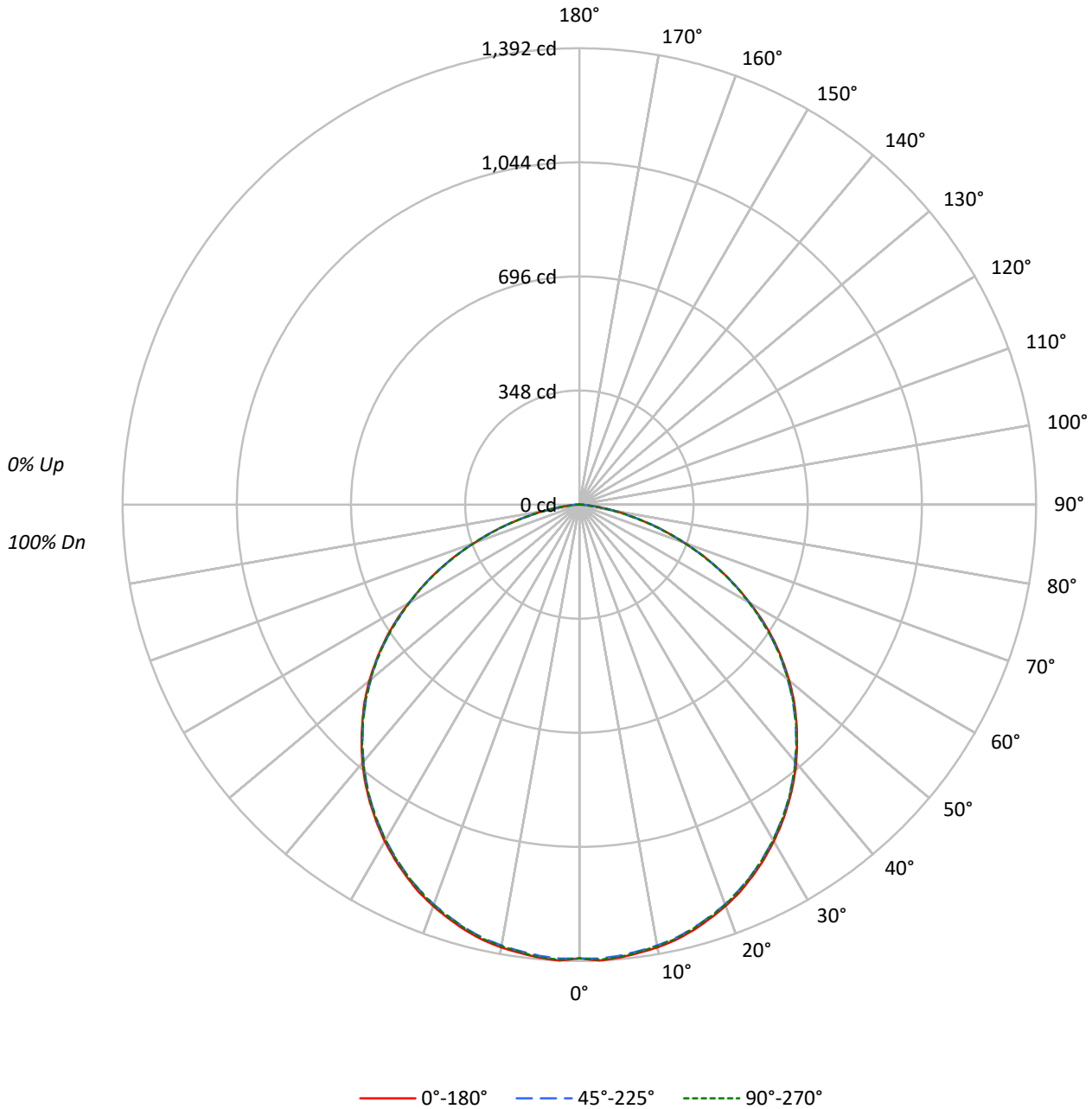
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3871.0 lumens
Efficiency: N/A
Efficacy: 107.2 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

TEST NUMBER: P973568
CATALOG NUMBER: FLR2-22-45-L835-CP250

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°	3725	3725	3725
5°	3748	3732	3744
10°	3747	3731	3738
15°	3744	3728	3732
20°	3731	3717	3722
25°	3711	3696	3699
30°	3685	3669	3672
35°	3651	3637	3640
40°	3613	3595	3598
45°	3559	3543	3550
50°	3497	3472	3479
55°	3398	3369	3381
60°	3230	3216	3216
65°	3016	3011	3000
70°	2670	2684	2677
75°	2249	2231	2214
80°	1616	1590	1576
85°	846	846	818

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3559 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	3.4
10°-20°	376.9	9.7
20°-30°	572.8	14.8
30°-40°	692.4	17.9
40°-50°	718.6	18.6
50°-60°	642.5	16.6
60°-70°	467.1	12.1
70°-80°	229.7	5.9
80°-90°	39.8	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°	1080.8	27.9
0°-40°	1773.2	45.8
0°-60°	3134.3	81.0
0°-90°	3871.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3871.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1384	1384	1384	1384	1384	
5°	1388	1371	1382	1376	1386	132
15°	1344	1329	1338	1335	1340	379
25°	1250	1236	1245	1242	1246	576
35°	1112	1104	1107	1108	1108	695
45°	935	931	931	933	933	722
55°	724	720	718	720	721	645
65°	474	475	473	473	471	467
75°	216	218	215	216	213	230
85°	27	28	27	27	26	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1384.2	1384.2	1384.2	1384.2	1384.2
2.5°	1391.9	1375.7	1385.9	1379.9	1389.3
5°	1387.6	1371.4	1381.6	1376.5	1385.9
7.5°	1379.9	1363.7	1373.9	1368.8	1376.5
10°	1371.4	1354.3	1365.4	1360.3	1368.0
12.5°	1360.3	1344.0	1354.3	1350.0	1356.8
15°	1344.0	1328.6	1338.0	1334.6	1339.7
17.5°	1324.4	1309.0	1318.4	1315.8	1320.1
20°	1303.0	1288.4	1297.9	1295.3	1299.6
22.5°	1279.0	1263.7	1272.2	1270.5	1273.9
25°	1250.0	1236.3	1244.8	1242.3	1245.7
27.5°	1219.2	1206.4	1213.2	1213.2	1214.9
30°	1185.9	1173.9	1180.7	1180.7	1181.6
32.5°	1149.9	1140.5	1144.8	1145.7	1145.7
35°	1111.5	1103.8	1107.2	1108.0	1108.0
37.5°	1071.3	1063.6	1066.2	1067.9	1067.9
40°	1028.5	1021.7	1023.4	1025.1	1024.3
42.5°	982.4	977.2	978.1	979.8	979.8
45°	935.3	931.1	931.1	932.8	932.8
47.5°	887.5	883.2	881.5	883.2	883.2
50°	835.3	831.0	829.3	831.0	831.0
52.5°	780.6	776.3	776.3	776.3	777.2
55°	724.2	719.9	718.2	719.9	720.7
57.5°	664.3	662.6	660.0	660.9	658.3
60°	600.2	600.2	597.6	599.3	597.6
62.5°	537.8	539.5	536.9	536.9	535.2
65°	473.7	475.4	472.8	472.8	471.1
67.5°	407.8	410.4	407.0	407.0	405.3
70°	339.4	344.6	341.1	342.0	340.3
72.5°	277.9	280.4	277.0	277.0	275.3
75°	216.3	218.0	214.6	215.5	212.9
77.5°	155.6	158.2	154.8	155.6	154.8
80°	104.3	105.2	102.6	103.5	101.7
82.5°	60.7	61.6	60.7	59.8	59.0
85°	27.4	28.2	27.4	27.4	26.5
87.5°	6.8	6.8	6.8	6.8	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)