

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: P973504

Luminaire Tested: FLR2-22-45-L830-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973504
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-L830-CP125
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 2
Light Source:
Ballast/Driver: -

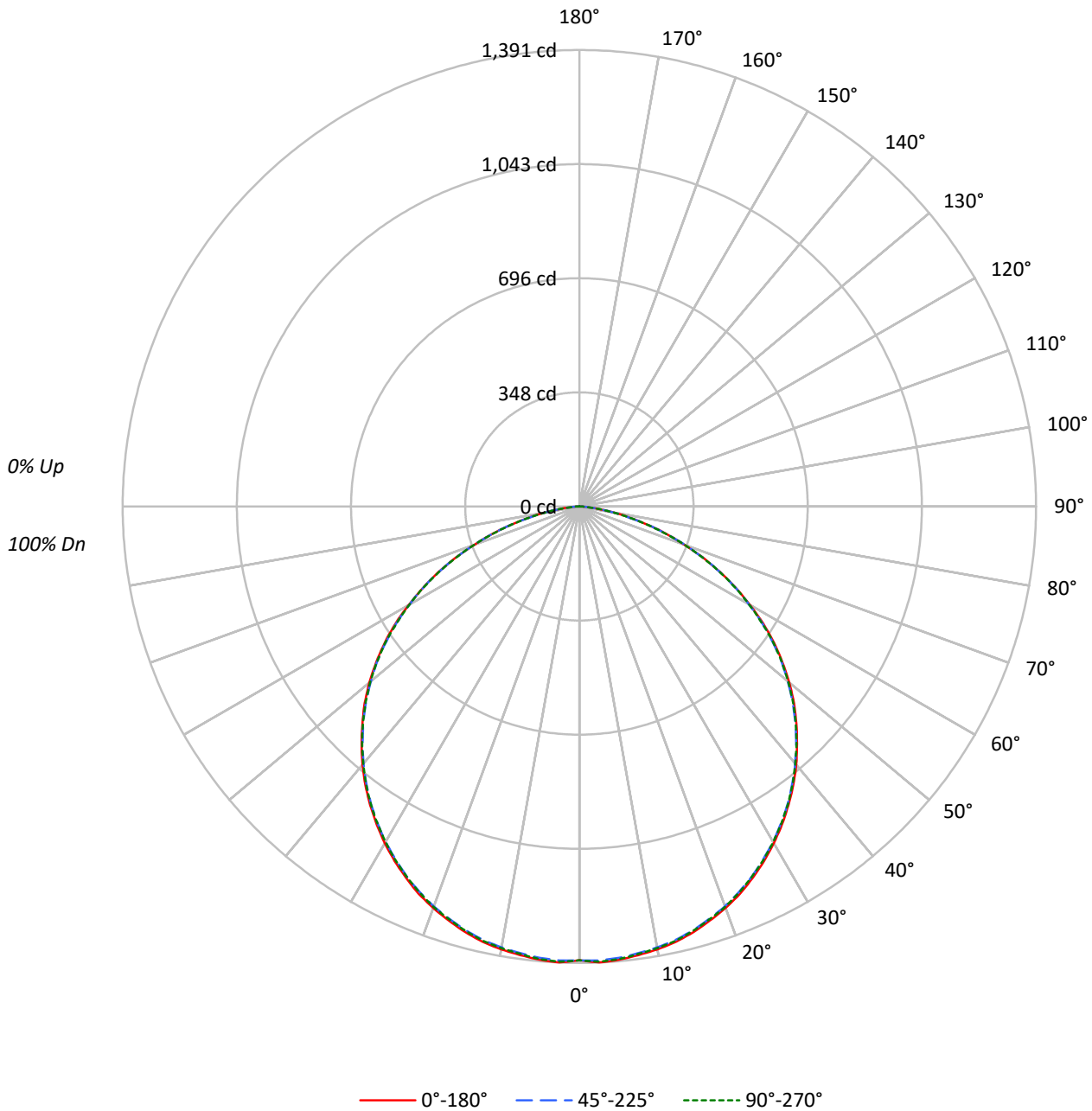
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3868.3 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

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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°	3722	3722	3722
5°	3746	3730	3741
10°	3745	3728	3735
15°	3742	3725	3730
20°	3729	3714	3719
25°	3709	3694	3696
30°	3682	3666	3669
35°	3649	3635	3638
40°	3610	3593	3595
45°	3557	3541	3547
50°	3494	3469	3477
55°	3395	3367	3379
60°	3228	3214	3214
65°	3014	3009	2998
70°	2669	2682	2675
75°	2248	2229	2211
80°	1615	1588	1576
85°	843	843	818

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3557 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.0	3.4
10°-20°	376.7	9.7
20°-30°	572.4	14.8
30°-40°	691.9	17.9
40°-50°	718.1	18.6
50°-60°	642.0	16.6
60°-70°	466.8	12.1
70°-80°	229.5	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°	1080.1	27.9
0°-40°	1771.9	45.8
0°-60°	3132.1	81.0
0°-90°	3868.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3868.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1383	1383	1383	1383	1383	
5°	1387	1370	1381	1376	1385	132
15°	1343	1328	1337	1334	1339	379
25°	1249	1235	1244	1241	1245	576
35°	1111	1103	1106	1107	1107	695
45°	935	930	930	932	932	721
55°	724	719	718	719	720	645
65°	473	475	472	472	471	467
75°	216	218	214	215	213	229
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°	1383.2	1383.2	1383.2	1383.2	1383.2
2.5°	1390.9	1374.7	1384.9	1379.0	1388.4
5°	1386.7	1370.4	1380.7	1375.5	1384.9
7.5°	1379.0	1362.7	1373.0	1367.9	1375.5
10°	1370.4	1353.3	1364.4	1359.3	1367.0
12.5°	1359.3	1343.1	1353.3	1349.1	1355.9
15°	1343.1	1327.7	1337.1	1333.7	1338.8
17.5°	1323.4	1308.1	1317.5	1314.9	1319.2
20°	1302.1	1287.5	1296.9	1294.4	1298.7
22.5°	1278.1	1262.8	1271.3	1269.6	1273.0
25°	1249.1	1235.4	1244.0	1241.4	1244.8
27.5°	1218.3	1205.5	1212.4	1212.4	1214.1
30°	1185.0	1173.1	1179.9	1179.9	1180.8
32.5°	1149.1	1139.7	1144.0	1144.9	1144.9
35°	1110.7	1103.0	1106.4	1107.3	1107.3
37.5°	1070.5	1062.8	1065.4	1067.1	1067.1
40°	1027.8	1021.0	1022.7	1024.4	1023.5
42.5°	981.7	976.6	977.4	979.1	979.1
45°	934.7	930.4	930.4	932.1	932.1
47.5°	886.8	882.6	880.9	882.6	882.6
50°	834.7	830.5	828.7	830.5	830.5
52.5°	780.0	775.8	775.8	775.8	776.6
55°	723.7	719.4	717.7	719.4	720.2
57.5°	663.9	662.1	659.6	660.4	657.9
60°	599.8	599.8	597.2	598.9	597.2
62.5°	537.4	539.1	536.5	536.5	534.8
65°	473.3	475.0	472.5	472.5	470.8
67.5°	407.5	410.1	406.7	406.7	405.0
70°	339.2	344.3	340.9	341.8	340.0
72.5°	277.7	280.2	276.8	276.8	275.1
75°	216.2	217.9	214.4	215.3	212.7
77.5°	155.5	158.1	154.6	155.5	154.6
80°	104.2	105.1	102.5	103.4	101.7
82.5°	60.7	61.5	60.7	59.8	59.0
85°	27.3	28.2	27.3	27.3	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)