

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: P973516

Luminaire Tested: FLR2-22-45-L830-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973516
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-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

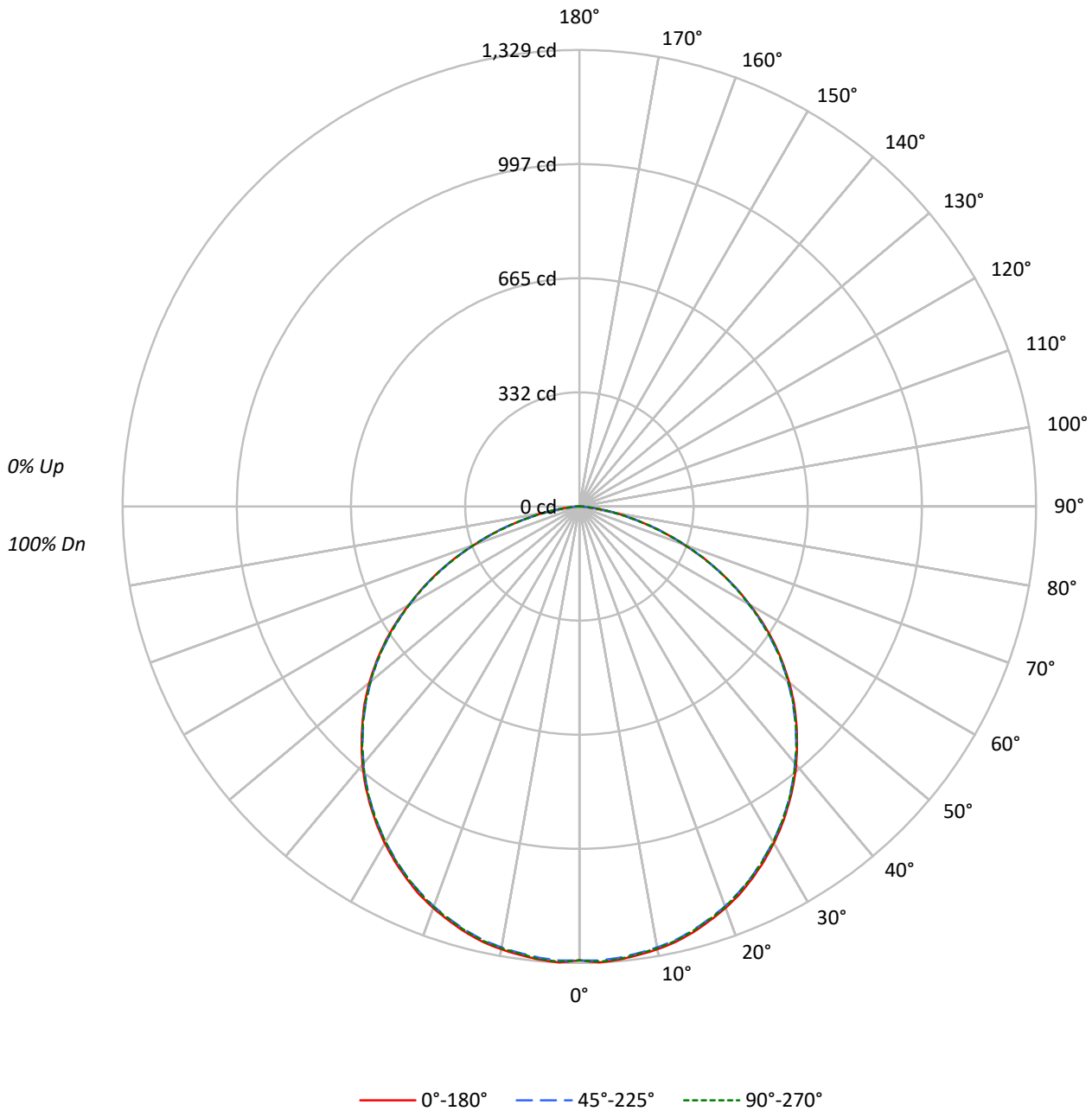
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3695.6 lumens
Efficiency: N/A
Efficacy: 102.4 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										
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°	3556	3556	3556
5°	3579	3563	3574
10°	3578	3562	3569
15°	3575	3559	3563
20°	3562	3548	3553
25°	3543	3529	3531
30°	3518	3503	3505
35°	3486	3472	3475
40°	3449	3432	3435
45°	3398	3383	3389
50°	3339	3315	3322
55°	3244	3217	3228
60°	3084	3071	3071
65°	2879	2874	2864
70°	2549	2563	2556
75°	2147	2130	2113
80°	1543	1517	1505
85°	806	806	781

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3398 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.1	3.4
10°-20°	359.9	9.7
20°-30°	546.9	14.8
30°-40°	661.0	17.9
40°-50°	686.1	18.6
50°-60°	613.4	16.6
60°-70°	446.0	12.1
70°-80°	219.3	5.9
80°-90°	38.0	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°	1031.9	27.9
0°-40°	1692.9	45.8
0°-60°	2992.3	81.0
0°-90°	3695.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3695.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1322	1322	1322	1322	1322	
5°	1325	1309	1319	1314	1323	126
15°	1283	1268	1277	1274	1279	362
25°	1193	1180	1188	1186	1189	550
35°	1061	1054	1057	1058	1058	664
45°	893	889	889	890	890	689
55°	691	687	686	687	688	616
65°	452	454	451	451	450	446
75°	206	208	205	206	203	219
85°	26	27	26	26	25	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1321.5	1321.5	1321.5	1321.5	1321.5
2.5°	1328.8	1313.3	1323.1	1317.4	1326.4
5°	1324.8	1309.3	1319.0	1314.2	1323.1
7.5°	1317.4	1301.9	1311.7	1306.8	1314.2
10°	1309.3	1292.9	1303.5	1298.6	1306.0
12.5°	1298.6	1283.1	1292.9	1288.8	1295.4
15°	1283.1	1268.4	1277.4	1274.2	1279.1
17.5°	1264.4	1249.7	1258.6	1256.2	1260.3
20°	1244.0	1230.1	1239.1	1236.6	1240.7
22.5°	1221.1	1206.4	1214.6	1212.9	1216.2
25°	1193.3	1180.3	1188.5	1186.0	1189.3
27.5°	1164.0	1151.7	1158.2	1158.2	1159.9
30°	1132.1	1120.7	1127.2	1127.2	1128.0
32.5°	1097.8	1088.9	1093.0	1093.8	1093.8
35°	1061.1	1053.8	1057.0	1057.9	1057.9
37.5°	1022.8	1015.4	1017.9	1019.5	1019.5
40°	981.9	975.4	977.0	978.7	977.9
42.5°	937.9	933.0	933.8	935.4	935.4
45°	893.0	888.9	888.9	890.5	890.5
47.5°	847.3	843.2	841.5	843.2	843.2
50°	797.5	793.4	791.8	793.4	793.4
52.5°	745.2	741.1	741.1	741.1	742.0
55°	691.4	687.3	685.6	687.3	688.1
57.5°	634.2	632.6	630.1	631.0	628.5
60°	573.0	573.0	570.6	572.2	570.6
62.5°	513.4	515.0	512.6	512.6	511.0
65°	452.2	453.8	451.4	451.4	449.8
67.5°	389.3	391.8	388.5	388.5	386.9
70°	324.0	328.9	325.7	326.5	324.9
72.5°	265.3	267.7	264.5	264.5	262.8
75°	206.5	208.1	204.9	205.7	203.2
77.5°	148.6	151.0	147.7	148.6	147.7
80°	99.6	100.4	97.9	98.8	97.1
82.5°	58.0	58.8	58.0	57.1	56.3
85°	26.1	26.9	26.1	26.1	25.3
87.5°	6.5	6.5	6.5	6.5	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)