

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: P974091

Luminaire Tested: FLR2-24-35-L830-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974091
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-35-L830-CP375
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L830-CP375
Ballast/Driver: -

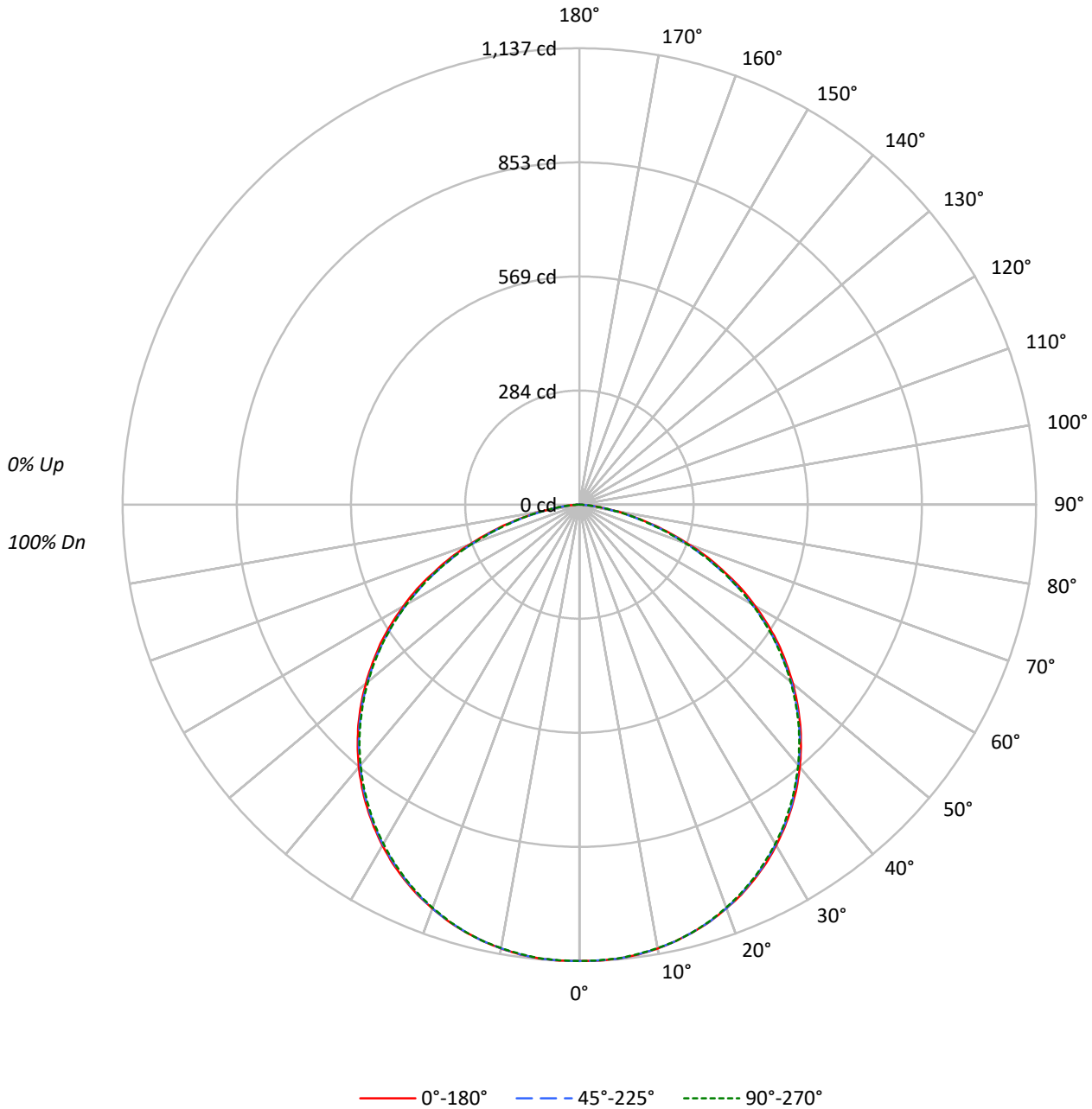
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3214.2 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28.4
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: P974091
CATALOG NUMBER: FLR2-24-35-L830-CP375

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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85						85														
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51						51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44						44														
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38						38														
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34						34														
8	61	47	39	33	59	47	38	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	39	33	29	27						27														
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25						25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1530	1530	1530
5°	1533	1533	1532
10°	1534	1534	1533
15°	1535	1534	1534
20°	1533	1532	1530
25°	1530	1527	1525
30°	1523	1519	1516
35°	1513	1509	1504
40°	1500	1491	1489
45°	1481	1472	1467
50°	1453	1442	1438
55°	1418	1399	1396
60°	1359	1335	1335
65°	1272	1242	1246
70°	1144	1109	1106
75°	961	923	919
80°	702	667	696
85°	397	366	372

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1481 cd/sqm



TEST NUMBER: P974091
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	3.4
10°-20°	311.0	9.7
20°-30°	474.1	14.8
30°-40°	574.5	17.9
40°-50°	596.7	18.6
50°-60°	533.8	16.6
60°-70°	389.0	12.1
70°-80°	192.7	6.0
80°-90°	34.4	1.1
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°	893.1	27.8
0°-40°	1467.5	45.7
0°-60°	2598.0	80.8
0°-90°	3214.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3214.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1137	1137	1137	1137	1137	
5°	1135	1136	1135	1135	1134	108
15°	1102	1101	1101	1102	1101	311
25°	1031	1030	1029	1028	1027	475
35°	921	920	919	917	916	576
45°	778	776	774	772	771	600
55°	605	600	596	596	595	539
65°	400	396	390	392	391	396
75°	185	182	178	181	177	197
85°	26	24	24	24	24	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1137.2	1137.2	1137.2	1137.2	1137.2
2.5°	1137.2	1136.8	1136.8	1137.2	1136.4
5°	1135.2	1135.6	1135.2	1135.2	1134.4
7.5°	1130.7	1130.3	1129.9	1130.3	1129.1
10°	1123.0	1123.0	1122.6	1123.0	1122.1
12.5°	1113.6	1113.6	1113.6	1114.0	1113.6
15°	1101.7	1101.3	1101.3	1102.1	1101.3
17.5°	1087.9	1087.5	1087.5	1087.0	1086.2
20°	1070.7	1070.7	1070.3	1069.9	1068.7
22.5°	1052.4	1052.0	1050.7	1050.7	1049.1
25°	1030.7	1029.5	1028.7	1028.3	1027.1
27.5°	1007.1	1005.4	1004.2	1003.4	1002.2
30°	980.5	978.9	977.7	976.5	975.7
32.5°	952.0	951.2	949.1	948.7	947.1
35°	921.4	920.2	918.9	917.3	915.7
37.5°	888.7	887.5	884.7	883.8	882.6
40°	854.1	852.4	848.7	848.7	847.5
42.5°	816.9	815.3	812.8	811.2	810.4
45°	778.2	776.5	773.7	772.0	771.2
47.5°	736.9	735.7	732.5	731.2	730.0
50°	694.1	692.5	688.8	688.0	686.8
52.5°	649.2	648.4	643.5	643.1	641.9
55°	604.7	600.2	596.2	596.2	595.3
57.5°	555.8	552.5	547.2	547.2	546.4
60°	505.2	502.3	496.2	497.0	496.2
62.5°	455.8	449.7	444.0	446.4	444.4
65°	399.5	396.2	390.1	391.7	391.3
67.5°	348.1	341.9	336.2	339.5	337.9
70°	290.9	287.7	282.0	285.2	281.1
72.5°	237.1	234.2	228.5	232.2	228.1
75°	184.8	182.0	177.5	180.8	176.7
77.5°	135.5	133.4	129.4	132.6	133.4
80°	90.6	88.1	86.1	89.0	89.8
82.5°	53.0	51.4	50.6	51.0	53.0
85°	25.7	23.7	23.7	24.1	24.1
87.5°	6.9	6.1	6.9	7.3	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)