

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: P974067

Luminaire Tested: FLR2-24-35-L830-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974067
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-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L830-CP125
Ballast/Driver: -

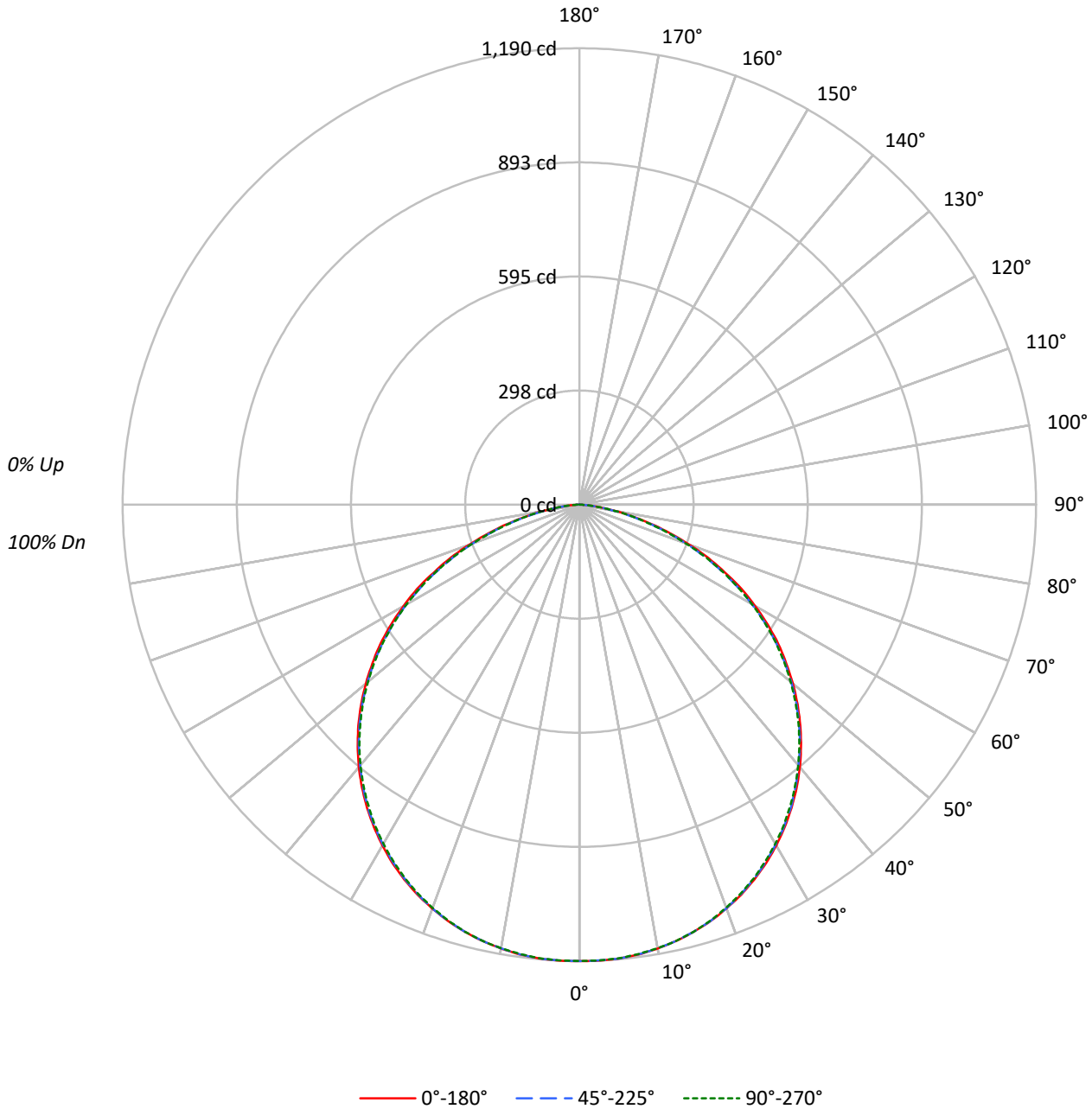
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3364.4 lumens
Efficiency: N/A
Efficacy: 118.5 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

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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	100	100	100	100	100														
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85	85	85	85	85	85	85														
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71	71	71	71	71	71	71														
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60	60	60	60	60	60	60														
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51	51	51	51	51	51	51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44	44	44	44	44	44	44														
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38	38	38	38	38	38	38														
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34	34	34	34	34	34	34														
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30	30	30	30	30	30	30														
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27	27	27	27	27	27	27														
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25	25	25	25	25	25	25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1602	1602	1602
5°	1605	1605	1604
10°	1606	1605	1605
15°	1606	1606	1606
20°	1605	1604	1602
25°	1602	1599	1596
30°	1595	1590	1587
35°	1584	1580	1574
40°	1570	1560	1558
45°	1550	1541	1536
50°	1521	1509	1505
55°	1485	1464	1462
60°	1423	1398	1398
65°	1331	1300	1304
70°	1198	1161	1158
75°	1006	966	961
80°	735	698	728
85°	415	383	389

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1550 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.0	3.4
10°-20°	325.5	9.7
20°-30°	496.3	14.8
30°-40°	601.3	17.9
40°-50°	624.6	18.6
50°-60°	558.7	16.6
60°-70°	407.2	12.1
70°-80°	201.7	6.0
80°-90°	36.1	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°	934.8	27.8
0°-40°	1536.1	45.7
0°-60°	2719.4	80.8
0°-90°	3364.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3364.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1190	1190	1190	1190	1190	
5°	1188	1189	1188	1188	1187	113
15°	1153	1153	1153	1154	1153	326
25°	1079	1078	1077	1076	1075	497
35°	964	963	962	960	958	603
45°	814	813	810	808	807	628
55°	633	628	624	624	623	564
65°	418	415	408	410	410	415
75°	194	190	186	189	185	206
85°	27	25	25	25	25	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1190.4	1190.4	1190.4	1190.4	1190.4
2.5°	1190.4	1189.9	1189.9	1190.4	1189.5
5°	1188.2	1188.7	1188.2	1188.2	1187.4
7.5°	1183.5	1183.1	1182.7	1183.1	1181.8
10°	1175.4	1175.4	1175.0	1175.4	1174.6
12.5°	1165.6	1165.6	1165.6	1166.0	1165.6
15°	1153.2	1152.8	1152.8	1153.6	1152.8
17.5°	1138.7	1138.3	1138.3	1137.8	1137.0
20°	1120.8	1120.8	1120.3	1119.9	1118.6
22.5°	1101.5	1101.1	1099.8	1099.8	1098.1
25°	1078.9	1077.6	1076.8	1076.3	1075.1
27.5°	1054.1	1052.4	1051.1	1050.3	1049.0
30°	1026.4	1024.7	1023.4	1022.1	1021.2
32.5°	996.5	995.6	993.5	993.0	991.3
35°	964.4	963.1	961.9	960.2	958.4
37.5°	930.3	929.0	926.0	925.1	923.9
40°	894.0	892.2	888.4	888.4	887.1
42.5°	855.1	853.4	850.8	849.1	848.3
45°	814.5	812.8	809.8	808.1	807.2
47.5°	771.4	770.1	766.7	765.4	764.1
50°	726.5	724.8	721.0	720.1	718.8
52.5°	679.5	678.7	673.6	673.1	671.9
55°	633.0	628.3	624.0	624.0	623.2
57.5°	581.7	578.3	572.8	572.8	571.9
60°	528.8	525.8	519.4	520.2	519.4
62.5°	477.1	470.7	464.7	467.3	465.1
65°	418.1	414.7	408.3	410.0	409.6
67.5°	364.3	357.9	351.9	355.4	353.7
70°	304.5	301.1	295.1	298.6	294.3
72.5°	248.2	245.2	239.2	243.0	238.8
75°	193.5	190.5	185.8	189.2	184.9
77.5°	141.8	139.7	135.4	138.8	139.7
80°	94.8	92.3	90.1	93.1	94.0
82.5°	55.5	53.8	53.0	53.4	55.5
85°	26.9	24.8	24.8	25.2	25.2
87.5°	7.3	6.4	7.3	7.7	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)