

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: P974083

Luminaire Tested: FLR2-24-35-L830-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974083
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L830-CP250
Ballast/Driver: -

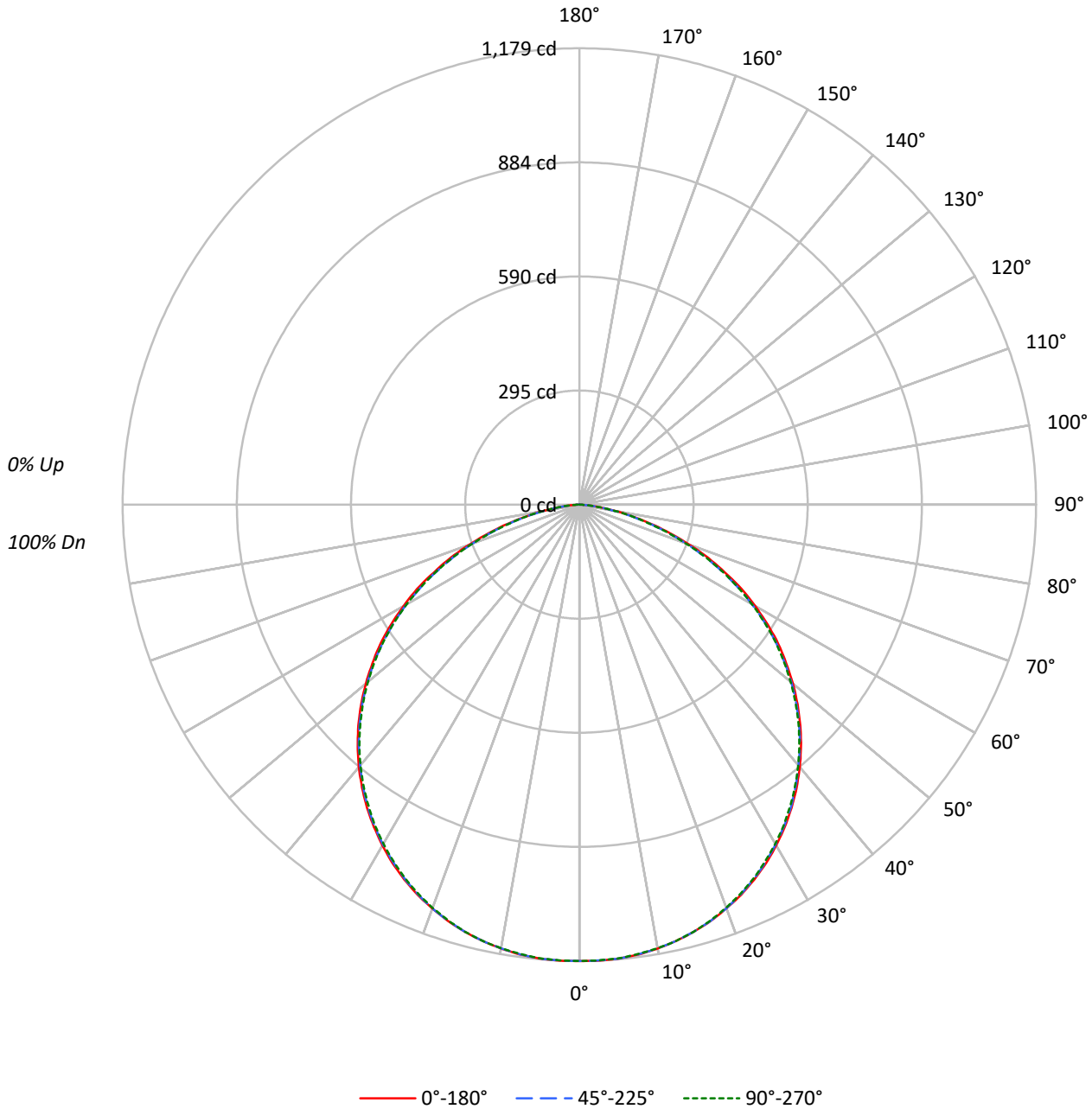
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3333.0 lumens
Efficiency: N/A
Efficacy: 117.4 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				20	
RC	80				70				50				30				10	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1587	1587	1587
5°	1590	1590	1589
10°	1591	1590	1590
15°	1591	1591	1591
20°	1590	1589	1587
25°	1587	1584	1581
30°	1580	1575	1572
35°	1569	1565	1560
40°	1555	1546	1544
45°	1535	1527	1522
50°	1507	1495	1491
55°	1471	1450	1448
60°	1410	1385	1385
65°	1319	1288	1292
70°	1187	1150	1147
75°	997	957	952
80°	728	692	721
85°	412	378	386

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1535 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.9	3.4
10°-20°	322.5	9.7
20°-30°	491.7	14.8
30°-40°	595.7	17.9
40°-50°	618.8	18.6
50°-60°	553.5	16.6
60°-70°	403.4	12.1
70°-80°	199.8	6.0
80°-90°	35.7	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°	926.1	27.8
0°-40°	1521.8	45.7
0°-60°	2694.1	80.8
0°-90°	3333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3333.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1179	1179	1179	1179	1179	
5°	1177	1178	1177	1177	1176	112
15°	1142	1142	1142	1143	1142	323
25°	1069	1068	1067	1066	1065	493
35°	956	954	953	951	950	598
45°	807	805	802	801	800	622
55°	627	622	618	618	617	559
65°	414	411	404	406	406	411
75°	192	189	184	188	183	204
85°	27	24	24	25	25	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1179.3	1179.3	1179.3	1179.3	1179.3
2.5°	1179.3	1178.9	1178.9	1179.3	1178.4
5°	1177.2	1177.6	1177.2	1177.2	1176.3
7.5°	1172.5	1172.1	1171.7	1172.1	1170.8
10°	1164.5	1164.5	1164.1	1164.5	1163.6
12.5°	1154.8	1154.8	1154.8	1155.2	1154.8
15°	1142.5	1142.1	1142.1	1142.9	1142.1
17.5°	1128.1	1127.7	1127.7	1127.2	1126.4
20°	1110.3	1110.3	1109.9	1109.5	1108.2
22.5°	1091.3	1090.9	1089.6	1089.6	1087.9
25°	1068.9	1067.6	1066.7	1066.3	1065.0
27.5°	1044.3	1042.6	1041.3	1040.5	1039.2
30°	1016.8	1015.1	1013.8	1012.6	1011.7
32.5°	987.2	986.3	984.2	983.8	982.1
35°	955.5	954.2	952.9	951.2	949.5
37.5°	921.6	920.3	917.4	916.5	915.3
40°	885.6	883.9	880.1	880.1	878.9
42.5°	847.1	845.4	842.9	841.2	840.4
45°	806.9	805.2	802.3	800.6	799.7
47.5°	764.2	762.9	759.5	758.3	757.0
50°	719.8	718.1	714.3	713.4	712.1
52.5°	673.2	672.4	667.3	666.9	665.6
55°	627.1	622.4	618.2	618.2	617.4
57.5°	576.3	572.9	567.4	567.4	566.6
60°	523.8	520.9	514.5	515.4	514.5
62.5°	472.6	466.3	460.4	462.9	460.8
65°	414.3	410.9	404.5	406.2	405.8
67.5°	360.9	354.6	348.7	352.1	350.4
70°	301.7	298.3	292.4	295.8	291.5
72.5°	245.8	242.9	237.0	240.8	236.5
75°	191.7	188.7	184.1	187.5	183.2
77.5°	140.5	138.4	134.1	137.5	138.4
80°	93.9	91.4	89.3	92.2	93.1
82.5°	55.0	53.3	52.5	52.9	55.0
85°	26.7	24.5	24.5	25.0	25.0
87.5°	7.2	6.3	7.2	7.6	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)