

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: P974107

Luminaire Tested: FLR2-24-35-L830-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974107
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-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L830-CA125
Ballast/Driver: -

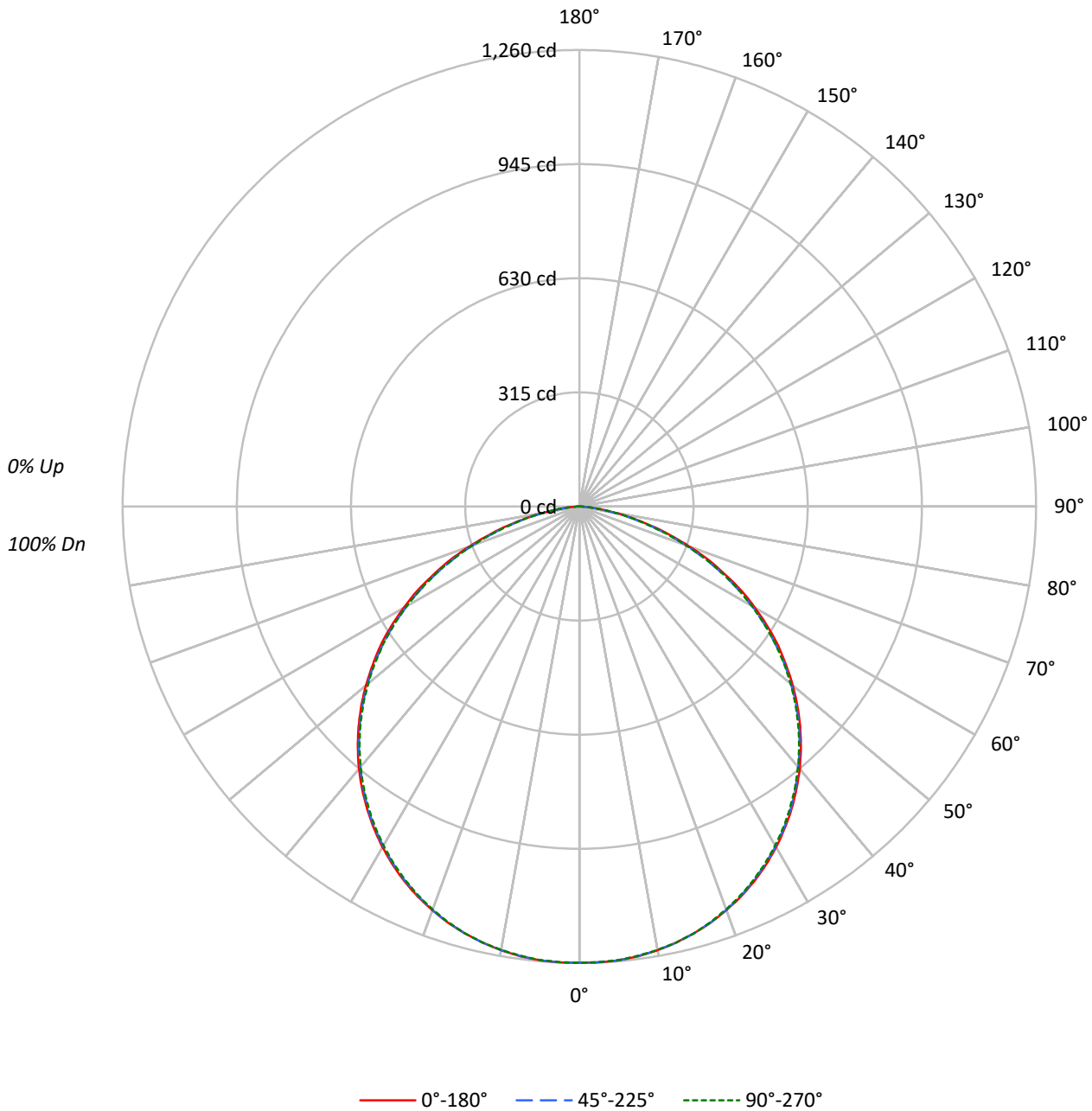
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3559.9 lumens
Efficiency: N/A
Efficacy: 125.3 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°	1695	1695	1695
5°	1698	1698	1697
10°	1699	1699	1698
15°	1700	1699	1699
20°	1698	1697	1695
25°	1695	1691	1689
30°	1687	1682	1679
35°	1676	1672	1666
40°	1661	1651	1649
45°	1640	1631	1625
50°	1609	1597	1592
55°	1571	1549	1547
60°	1506	1479	1479
65°	1408	1376	1380
70°	1268	1229	1225
75°	1064	1022	1017
80°	777	739	770
85°	440	404	412

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1640 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.6	3.4
10°-20°	344.4	9.7
20°-30°	525.1	14.8
30°-40°	636.2	17.9
40°-50°	660.9	18.6
50°-60°	591.2	16.6
60°-70°	430.9	12.1
70°-80°	213.4	6.0
80°-90°	38.1	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°	989.1	27.8
0°-40°	1625.4	45.7
0°-60°	2877.5	80.8
0°-90°	3559.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3559.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1260	1260	1260	1260	1260	
5°	1257	1258	1257	1257	1256	120
15°	1220	1220	1220	1221	1220	345
25°	1142	1140	1139	1139	1138	526
35°	1020	1019	1018	1016	1014	638
45°	862	860	857	855	854	664
55°	670	665	660	660	659	597
65°	442	439	432	434	433	439
75°	205	202	197	200	196	218
85°	28	26	26	27	27	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1259.6	1259.6	1259.6	1259.6	1259.6
2.5°	1259.6	1259.1	1259.1	1259.6	1258.7
5°	1257.3	1257.7	1257.3	1257.3	1256.4
7.5°	1252.3	1251.9	1251.4	1251.9	1250.5
10°	1243.7	1243.7	1243.3	1243.7	1242.8
12.5°	1233.3	1233.3	1233.3	1233.8	1233.3
15°	1220.2	1219.8	1219.8	1220.7	1219.8
17.5°	1204.9	1204.4	1204.4	1204.0	1203.1
20°	1185.9	1185.9	1185.4	1185.0	1183.6
22.5°	1165.6	1165.1	1163.7	1163.7	1161.9
25°	1141.6	1140.2	1139.3	1138.9	1137.5
27.5°	1115.4	1113.6	1112.2	1111.3	1110.0
30°	1086.0	1084.2	1082.8	1081.5	1080.6
32.5°	1054.4	1053.5	1051.2	1050.8	1049.0
35°	1020.5	1019.1	1017.8	1016.0	1014.2
37.5°	984.3	983.0	979.8	978.9	977.5
40°	945.9	944.1	940.0	940.0	938.7
42.5°	904.8	903.0	900.3	898.5	897.6
45°	861.8	860.0	856.9	855.1	854.2
47.5°	816.2	814.8	811.2	809.9	808.5
50°	768.7	766.9	762.9	762.0	760.6
52.5°	719.0	718.1	712.7	712.3	710.9
55°	669.8	664.8	660.3	660.3	659.4
57.5°	615.5	611.9	606.1	606.1	605.1
60°	559.5	556.3	549.6	550.5	549.6
62.5°	504.8	498.0	491.7	494.4	492.2
65°	442.4	438.8	432.1	433.9	433.4
67.5°	385.5	378.7	372.4	376.0	374.2
70°	322.2	318.6	312.3	315.9	311.4
72.5°	262.6	259.4	253.1	257.2	252.6
75°	204.7	201.6	196.6	200.2	195.7
77.5°	150.0	147.8	143.3	146.9	147.8
80°	100.3	97.6	95.4	98.5	99.4
82.5°	58.8	56.9	56.0	56.5	58.8
85°	28.5	26.2	26.2	26.7	26.7
87.5°	7.7	6.8	7.7	8.1	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)