

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: P973761

Luminaire Tested: FLR2-22-50HE-L830-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973761
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: FLR2-22-50HE-L830-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

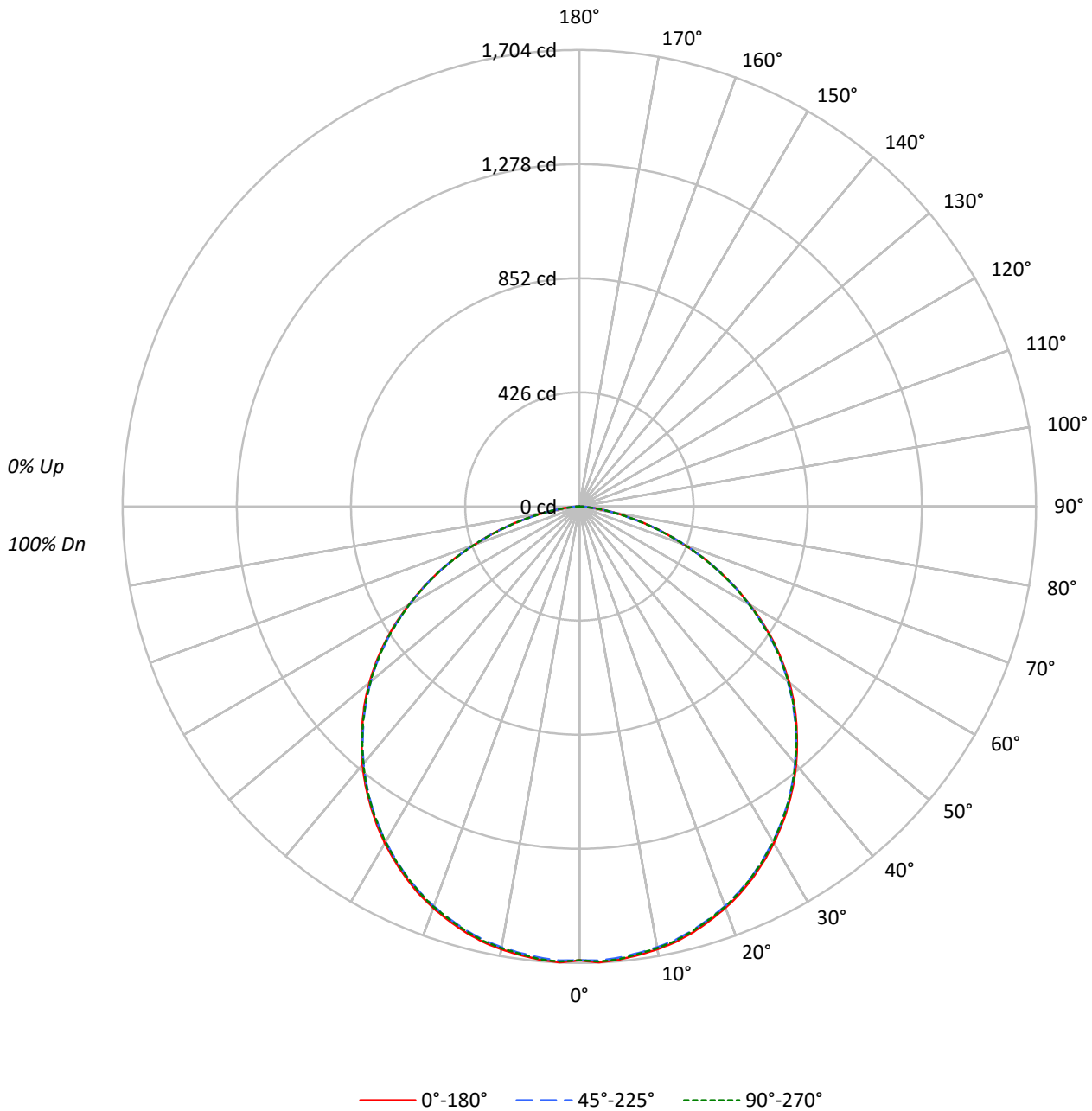
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4737.4 lumens
Efficiency: N/A
Efficacy: 118.4 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): 40
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°	4559	4559	4559
5°	4587	4568	4582
10°	4586	4566	4575
15°	4583	4562	4568
20°	4566	4549	4554
25°	4542	4524	4526
30°	4510	4490	4493
35°	4468	4451	4455
40°	4422	4400	4403
45°	4356	4337	4344
50°	4280	4249	4258
55°	4158	4123	4138
60°	3953	3936	3936
65°	3691	3684	3671
70°	3268	3285	3276
75°	2752	2730	2708
80°	1979	1946	1929
85°	1034	1034	1000

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4356 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.4	3.4
10°-20°	461.3	9.7
20°-30°	701.0	14.8
30°-40°	847.3	17.9
40°-50°	879.5	18.6
50°-60°	786.3	16.6
60°-70°	571.7	12.1
70°-80°	281.1	5.9
80°-90°	48.8	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°	1322.7	27.9
0°-40°	2170.1	45.8
0°-60°	3835.9	81.0
0°-90°	4737.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4737.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1694	1694	1694	1694	1694	
5°	1698	1678	1691	1685	1696	161
15°	1645	1626	1638	1633	1640	464
25°	1530	1513	1524	1520	1524	705
35°	1360	1351	1355	1356	1356	851
45°	1145	1140	1140	1142	1142	883
55°	886	881	879	881	882	790
65°	580	582	579	579	576	572
75°	265	267	263	264	260	281
85°	34	34	34	34	32	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1694.0	1694.0	1694.0	1694.0	1694.0
2.5°	1703.5	1683.6	1696.1	1688.8	1700.3
5°	1698.2	1678.3	1690.9	1684.6	1696.1
7.5°	1688.8	1668.9	1681.5	1675.2	1684.6
10°	1678.3	1657.4	1671.0	1664.7	1674.2
12.5°	1664.7	1644.9	1657.4	1652.2	1660.6
15°	1644.9	1626.0	1637.5	1633.3	1639.6
17.5°	1620.8	1602.0	1613.5	1610.3	1615.6
20°	1594.6	1576.8	1588.4	1585.2	1590.4
22.5°	1565.3	1546.5	1557.0	1554.9	1559.1
25°	1529.8	1513.0	1523.5	1520.3	1524.5
27.5°	1492.1	1476.4	1484.8	1484.8	1486.9
30°	1451.3	1436.6	1445.0	1445.0	1446.1
32.5°	1407.3	1395.8	1401.1	1402.1	1402.1
35°	1360.2	1350.8	1355.0	1356.1	1356.1
37.5°	1311.1	1301.7	1304.8	1306.9	1306.9
40°	1258.8	1250.4	1252.5	1254.6	1253.5
42.5°	1202.3	1196.0	1197.0	1199.1	1199.1
45°	1144.7	1139.5	1139.5	1141.6	1141.6
47.5°	1086.1	1080.9	1078.8	1080.9	1080.9
50°	1022.3	1017.0	1015.0	1017.0	1017.0
52.5°	955.3	950.1	950.1	950.1	951.1
55°	886.3	881.0	878.9	881.0	882.1
57.5°	813.0	810.9	807.8	808.8	805.7
60°	734.5	734.5	731.4	733.5	731.4
62.5°	658.2	660.2	657.1	657.1	655.0
65°	579.7	581.8	578.6	578.6	576.5
67.5°	499.1	502.2	498.1	498.1	496.0
70°	415.4	421.7	417.5	418.5	416.4
72.5°	340.1	343.2	339.0	339.0	336.9
75°	264.7	266.8	262.6	263.7	260.5
77.5°	190.4	193.6	189.4	190.4	189.4
80°	127.7	128.7	125.6	126.6	124.5
82.5°	74.3	75.3	74.3	73.2	72.2
85°	33.5	34.5	33.5	33.5	32.4
87.5°	8.4	8.4	8.4	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)