

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: P973845

Luminaire Tested: FLR2-22-50HE-L835-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973845
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-L835-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

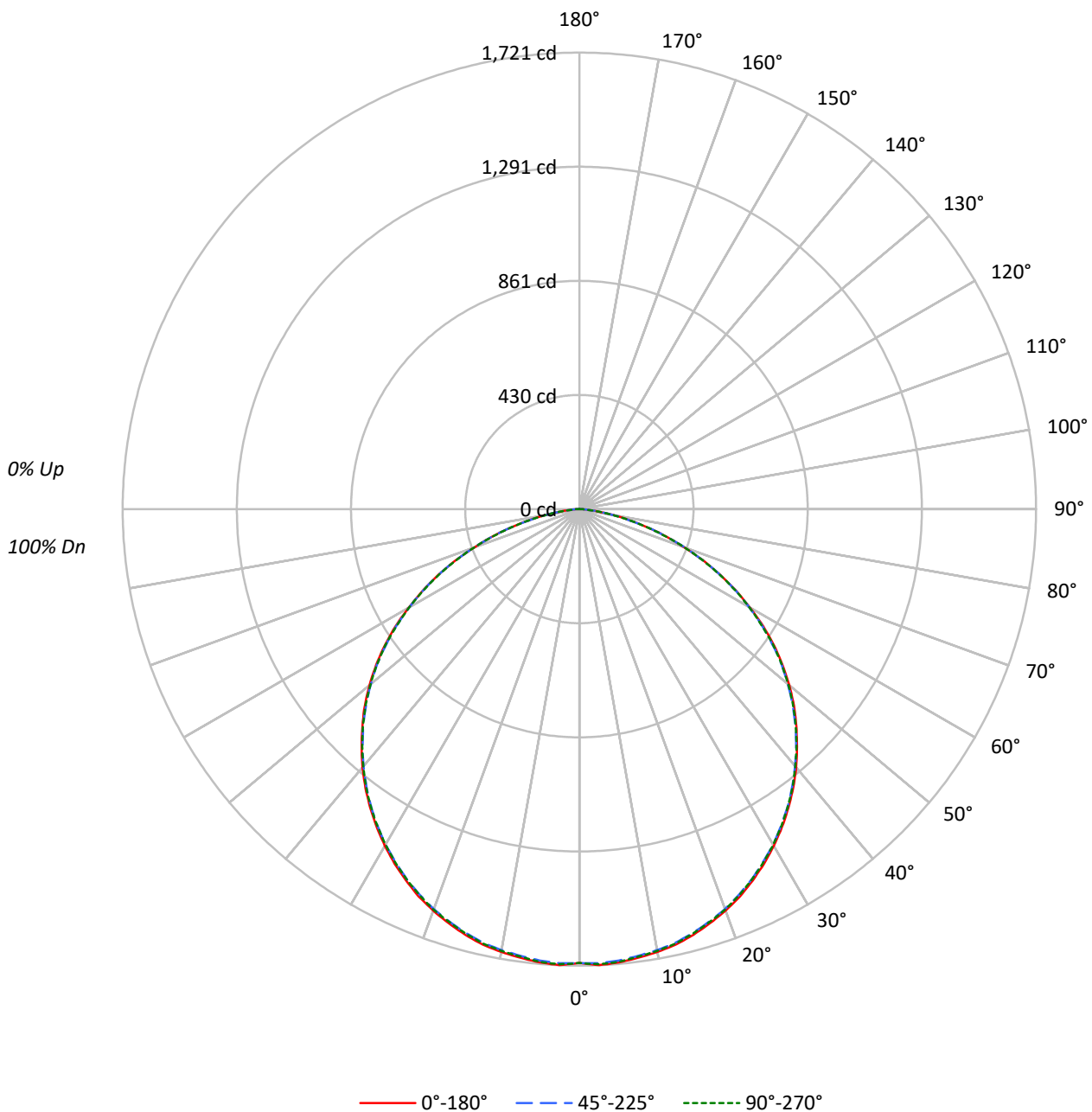
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4785.3 lumens
Efficiency: N/A
Efficacy: 119.6 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	0																	
RCR																																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																				
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85																				
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51																				
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44																				
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39																				
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34																				
8	61	47	39	33	59	47	39	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	40	34	29	27																				
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4605	4605	4605
5°	4634	4614	4628
10°	4632	4612	4621
15°	4629	4608	4614
20°	4613	4594	4601
25°	4588	4569	4572
30°	4555	4535	4539
35°	4514	4496	4500
40°	4467	4444	4448
45°	4400	4380	4388
50°	4323	4292	4301
55°	4200	4165	4180
60°	3993	3976	3976
65°	3728	3722	3708
70°	3301	3318	3310
75°	2780	2758	2737
80°	1998	1965	1949
85°	1044	1044	1013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4400 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.0	3.4
10°-20°	466.0	9.7
20°-30°	708.1	14.8
30°-40°	855.9	17.9
40°-50°	888.4	18.6
50°-60°	794.2	16.6
60°-70°	577.5	12.1
70°-80°	284.0	5.9
80°-90°	49.3	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°	1336.1	27.9
0°-40°	2192.0	45.8
0°-60°	3874.6	81.0
0°-90°	4785.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4785.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1711	1711	1711	1711	1711	
5°	1715	1695	1708	1702	1713	163
15°	1662	1642	1654	1650	1656	469
25°	1545	1528	1539	1536	1540	712
35°	1374	1364	1369	1370	1370	860
45°	1156	1151	1151	1153	1153	892
55°	895	890	888	890	891	798
65°	586	588	584	584	582	577
75°	267	270	265	266	263	284
85°	34	35	34	34	33	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1711.1	1711.1	1711.1	1711.1	1711.1
2.5°	1720.7	1700.6	1713.3	1705.9	1717.5
5°	1715.4	1695.3	1708.0	1701.6	1713.3
7.5°	1705.9	1685.8	1698.5	1692.1	1701.6
10°	1695.3	1674.2	1687.9	1681.6	1691.1
12.5°	1681.6	1661.5	1674.2	1668.9	1677.3
15°	1661.5	1642.4	1654.1	1649.8	1656.2
17.5°	1637.2	1618.1	1629.8	1626.6	1631.9
20°	1610.7	1592.8	1604.4	1601.2	1606.5
22.5°	1581.1	1562.1	1572.7	1570.6	1574.8
25°	1545.2	1528.3	1538.9	1535.7	1539.9
27.5°	1507.2	1491.3	1499.8	1499.8	1501.9
30°	1465.9	1451.1	1459.6	1459.6	1460.7
32.5°	1421.6	1409.9	1415.2	1416.3	1416.3
35°	1374.0	1364.5	1368.7	1369.8	1369.8
37.5°	1324.3	1314.8	1318.0	1320.1	1320.1
40°	1271.5	1263.0	1265.1	1267.2	1266.2
42.5°	1214.4	1208.1	1209.1	1211.2	1211.2
45°	1156.3	1151.0	1151.0	1153.1	1153.1
47.5°	1097.1	1091.8	1089.7	1091.8	1091.8
50°	1032.6	1027.3	1025.2	1027.3	1027.3
52.5°	965.0	959.7	959.7	959.7	960.7
55°	895.2	889.9	887.8	889.9	891.0
57.5°	821.2	819.1	815.9	817.0	813.8
60°	742.0	742.0	738.8	740.9	738.8
62.5°	664.8	666.9	663.7	663.7	661.6
65°	585.5	587.6	584.5	584.5	582.4
67.5°	504.1	507.3	503.1	503.1	501.0
70°	419.6	425.9	421.7	422.8	420.7
72.5°	343.5	346.7	342.4	342.4	340.3
75°	267.4	269.5	265.3	266.3	263.2
77.5°	192.4	195.5	191.3	192.4	191.3
80°	128.9	130.0	126.8	127.9	125.8
82.5°	75.0	76.1	75.0	74.0	72.9
85°	33.8	34.9	33.8	33.8	32.8
87.5°	8.5	8.5	8.5	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)