

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: P973839

Luminaire Tested: FLR2-22-50HE-L835-CA080

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973839  
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-CA080  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

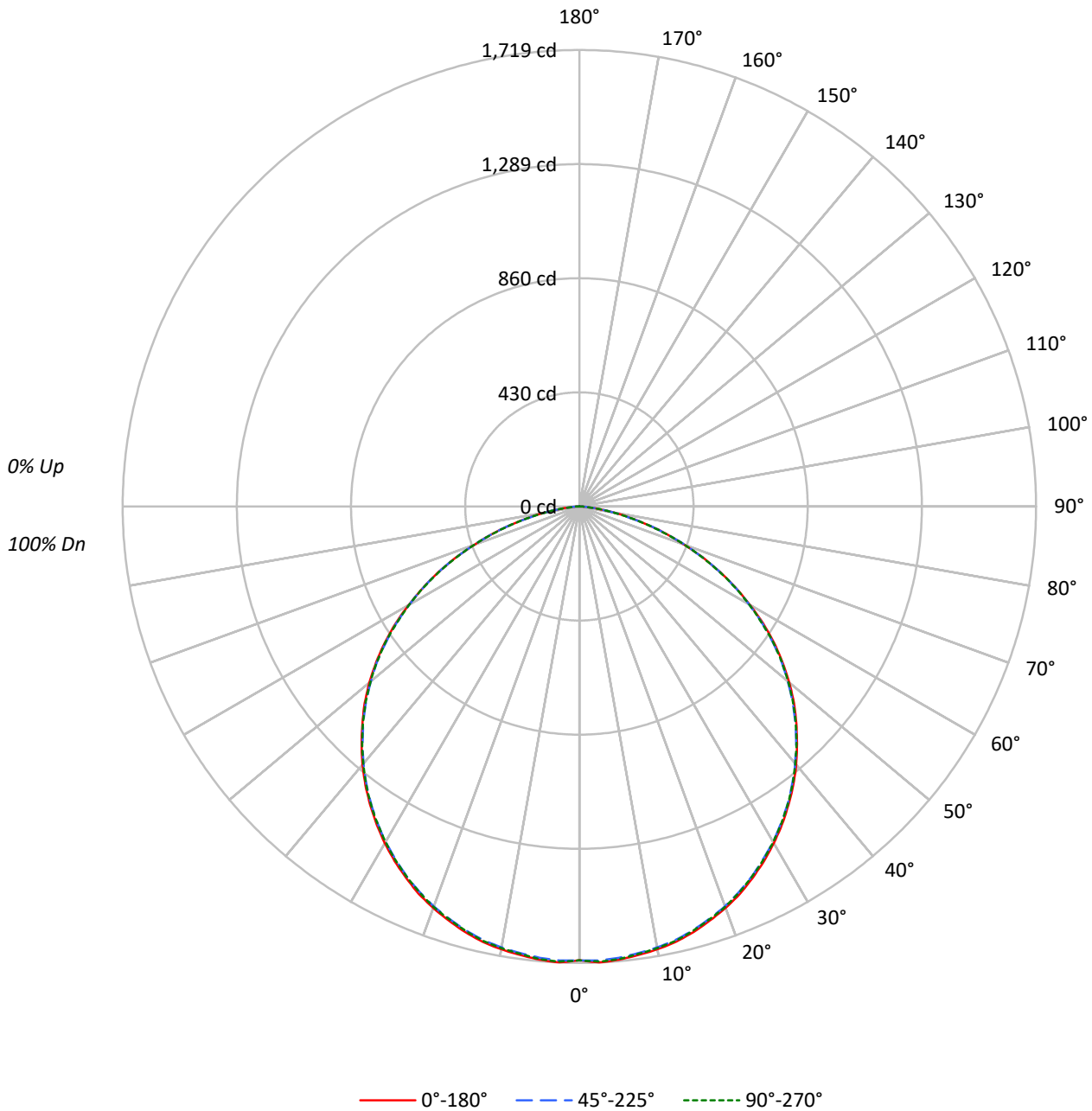
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4780.1 lumens  
Efficiency: N/A  
Efficacy: 119.5 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				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	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°	4600	4600	4600
5°	4629	4609	4623
10°	4627	4607	4616
15°	4624	4603	4609
20°	4608	4590	4596
25°	4583	4564	4567
30°	4550	4530	4534
35°	4509	4491	4495
40°	4462	4440	4443
45°	4395	4375	4384
50°	4318	4287	4296
55°	4195	4161	4176
60°	3989	3972	3972
65°	3724	3717	3704
70°	3297	3315	3306
75°	2777	2755	2733
80°	1996	1963	1946
85°	1044	1044	1010

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4395 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.9	3.4
10°-20°	465.5	9.7
20°-30°	707.3	14.8
30°-40°	855.0	17.9
40°-50°	887.4	18.6
50°-60°	793.4	16.6
60°-70°	576.8	12.1
70°-80°	283.7	5.9
80°-90°	49.2	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°	1334.7	27.9
0°-40°	2189.6	45.8
0°-60°	3870.4	81.0
0°-90°	4780.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4780.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1709	1709	1709	1709	1709	
5°	1714	1694	1706	1700	1711	163
15°	1660	1641	1652	1648	1654	468
25°	1544	1527	1537	1534	1538	711
35°	1372	1363	1367	1368	1368	859
45°	1155	1150	1150	1152	1152	891
55°	894	889	887	889	890	797
65°	585	587	584	584	582	577
75°	267	269	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°	1709.3	1709.3	1709.3	1709.3	1709.3
2.5°	1718.8	1698.7	1711.4	1704.0	1715.6
5°	1713.5	1693.5	1706.1	1699.8	1711.4
7.5°	1704.0	1684.0	1696.6	1690.3	1699.8
10°	1693.5	1672.4	1686.1	1679.7	1689.2
12.5°	1679.7	1659.7	1672.4	1667.1	1675.5
15°	1659.7	1640.7	1652.3	1648.1	1654.4
17.5°	1635.4	1616.4	1628.0	1624.8	1630.1
20°	1609.0	1591.1	1602.7	1599.5	1604.8
22.5°	1579.4	1560.4	1571.0	1568.9	1573.1
25°	1543.5	1526.7	1537.2	1534.0	1538.3
27.5°	1505.5	1489.7	1498.1	1498.1	1500.3
30°	1464.4	1449.6	1458.0	1458.0	1459.1
32.5°	1420.0	1408.4	1413.7	1414.7	1414.7
35°	1372.5	1363.0	1367.2	1368.3	1368.3
37.5°	1322.9	1313.4	1316.6	1318.7	1318.7
40°	1270.1	1261.7	1263.8	1265.9	1264.8
42.5°	1213.1	1206.8	1207.8	1209.9	1209.9
45°	1155.0	1149.7	1149.7	1151.9	1151.9
47.5°	1095.9	1090.6	1088.5	1090.6	1090.6
50°	1031.5	1026.2	1024.1	1026.2	1026.2
52.5°	963.9	958.6	958.6	958.6	959.7
55°	894.2	889.0	886.9	889.0	890.0
57.5°	820.3	818.2	815.1	816.1	812.9
60°	741.2	741.2	738.0	740.1	738.0
62.5°	664.1	666.2	663.0	663.0	660.9
65°	584.9	587.0	583.8	583.8	581.7
67.5°	503.6	506.8	502.5	502.5	500.4
70°	419.1	425.5	421.3	422.3	420.2
72.5°	343.1	346.3	342.1	342.1	340.0
75°	267.1	269.2	265.0	266.1	262.9
77.5°	192.2	195.3	191.1	192.2	191.1
80°	128.8	129.9	126.7	127.7	125.6
82.5°	75.0	76.0	75.0	73.9	72.8
85°	33.8	34.8	33.8	33.8	32.7
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)