

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: P973827

Luminaire Tested: FLR2-22-50HE-L835-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973827
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

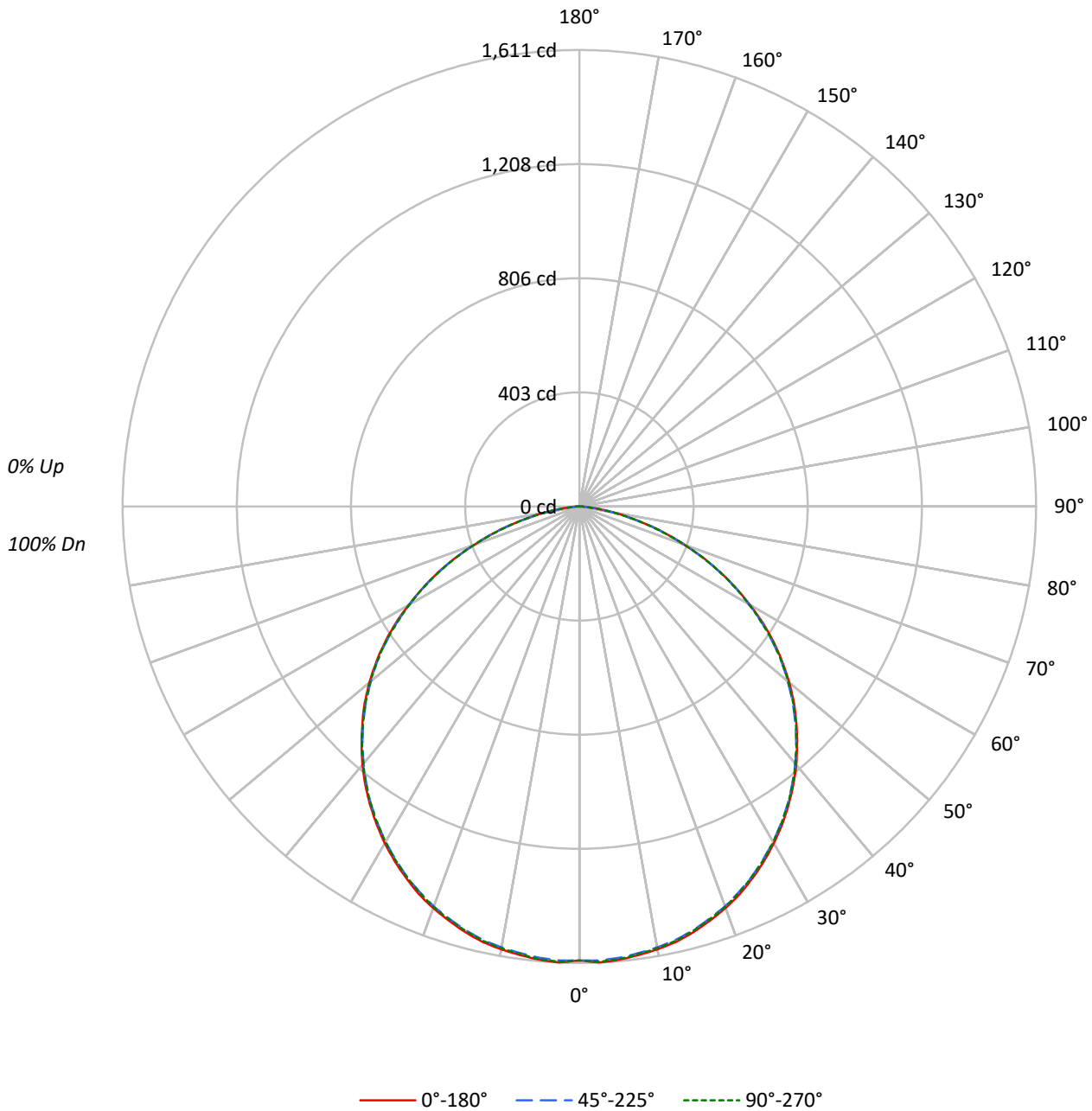
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4480.3 lumens
Efficiency: N/A
Efficacy: 112.0 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°	4311	4311	4311
5°	4338	4320	4333
10°	4337	4318	4326
15°	4334	4315	4320
20°	4319	4302	4307
25°	4295	4278	4281
30°	4265	4246	4250
35°	4226	4210	4213
40°	4182	4161	4164
45°	4120	4101	4109
50°	4047	4019	4027
55°	3932	3900	3914
60°	3739	3723	3723
65°	3491	3484	3472
70°	3091	3106	3098
75°	2603	2583	2562
80°	1870	1839	1826
85°	979	979	948

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4120 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.7	3.4
10°-20°	436.3	9.7
20°-30°	663.0	14.8
30°-40°	801.3	17.9
40°-50°	831.8	18.6
50°-60°	743.6	16.6
60°-70°	540.6	12.1
70°-80°	265.9	5.9
80°-90°	46.1	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°	1251.0	27.9
0°-40°	2052.3	45.8
0°-60°	3627.7	81.0
0°-90°	4480.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4480.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1602	1602	1602	1602	1602	
5°	1606	1587	1599	1593	1604	153
15°	1556	1538	1549	1545	1551	439
25°	1447	1431	1441	1438	1442	667
35°	1286	1278	1282	1282	1282	805
45°	1083	1078	1078	1080	1080	835
55°	838	833	831	833	834	747
65°	548	550	547	547	545	541
75°	250	252	248	249	246	266
85°	32	33	32	32	31	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1602.1	1602.1	1602.1	1602.1	1602.1
2.5°	1611.0	1592.2	1604.1	1597.2	1608.0
5°	1606.1	1587.3	1599.1	1593.2	1604.1
7.5°	1597.2	1578.4	1590.2	1584.3	1593.2
10°	1587.3	1567.5	1580.3	1574.4	1583.3
12.5°	1574.4	1555.6	1567.5	1562.5	1570.4
15°	1555.6	1537.8	1548.7	1544.7	1550.6
17.5°	1532.8	1515.0	1525.9	1522.9	1527.9
20°	1508.1	1491.3	1502.2	1499.2	1504.1
22.5°	1480.4	1462.6	1472.5	1470.5	1474.5
25°	1446.7	1430.9	1440.8	1437.8	1441.8
27.5°	1411.1	1396.3	1404.2	1404.2	1406.2
30°	1372.5	1358.7	1366.6	1366.6	1367.6
32.5°	1331.0	1320.1	1325.0	1326.0	1326.0
35°	1286.4	1277.5	1281.5	1282.5	1282.5
37.5°	1239.9	1231.0	1234.0	1236.0	1236.0
40°	1190.4	1182.5	1184.5	1186.5	1185.5
42.5°	1137.0	1131.1	1132.1	1134.0	1134.0
45°	1082.6	1077.6	1077.6	1079.6	1079.6
47.5°	1027.2	1022.2	1020.2	1022.2	1022.2
50°	966.8	961.9	959.9	961.9	961.9
52.5°	903.5	898.5	898.5	898.5	899.5
55°	838.2	833.2	831.2	833.2	834.2
57.5°	768.9	766.9	763.9	764.9	762.0
60°	694.7	694.7	691.7	693.7	691.7
62.5°	622.4	624.4	621.4	621.4	619.5
65°	548.2	550.2	547.2	547.2	545.3
67.5°	472.0	475.0	471.0	471.0	469.1
70°	392.9	398.8	394.8	395.8	393.8
72.5°	321.6	324.6	320.6	320.6	318.6
75°	250.4	252.3	248.4	249.4	246.4
77.5°	180.1	183.1	179.1	180.1	179.1
80°	120.7	121.7	118.7	119.7	117.8
82.5°	70.3	71.2	70.3	69.3	68.3
85°	31.7	32.7	31.7	31.7	30.7
87.5°	7.9	7.9	7.9	7.9	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)