

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: P973851

Luminaire Tested: FLR2-22-50HE-L935-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973851
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-L935-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

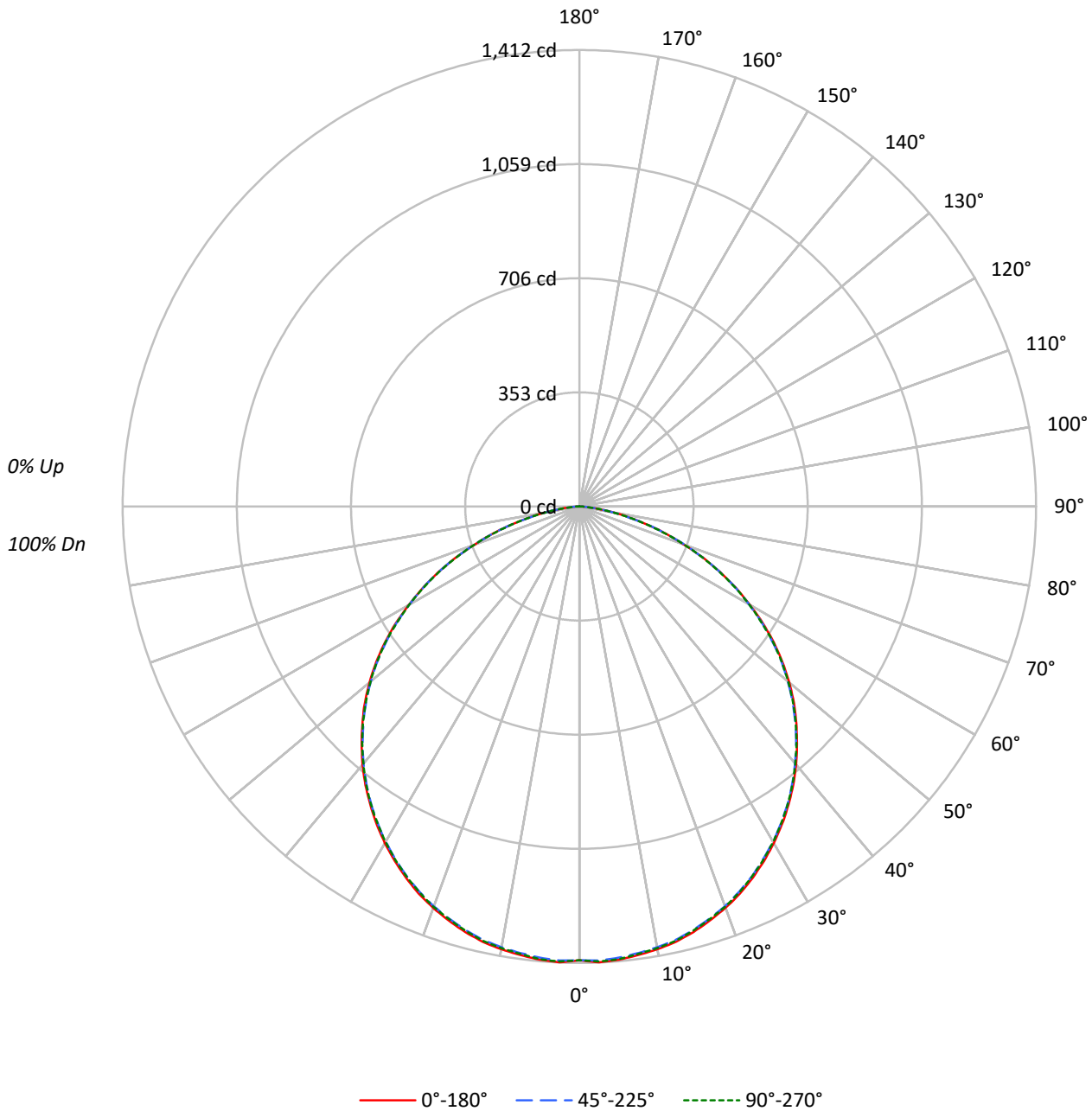
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3925.7 lumens
Efficiency: N/A
Efficacy: 98.1 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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CATALOG NUMBER: FLR2-22-50HE-L935-CP080

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																				
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°	3778	3778	3778
5°	3801	3785	3797
10°	3800	3784	3791
15°	3797	3780	3785
20°	3784	3769	3774
25°	3764	3749	3751
30°	3737	3721	3723
35°	3703	3689	3691
40°	3664	3646	3649
45°	3610	3593	3600
50°	3546	3521	3528
55°	3445	3417	3429
60°	3276	3262	3262
65°	3059	3053	3042
70°	2708	2722	2715
75°	2281	2262	2245
80°	1640	1612	1599
85°	855	855	831

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3610 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.9	3.4
10°-20°	382.3	9.7
20°-30°	580.9	14.8
30°-40°	702.2	17.9
40°-50°	728.8	18.6
50°-60°	651.6	16.6
60°-70°	473.7	12.1
70°-80°	233.0	5.9
80°-90°	40.4	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°	1096.1	27.9
0°-40°	1798.3	45.8
0°-60°	3178.7	81.0
0°-90°	3925.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3925.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1404	1404	1404	1404	1404	
5°	1407	1391	1401	1396	1406	134
15°	1363	1347	1357	1354	1359	385
25°	1268	1254	1262	1260	1263	584
35°	1127	1119	1123	1124	1124	705
45°	949	944	944	946	946	732
55°	734	730	728	730	731	655
65°	480	482	480	480	478	474
75°	219	221	218	218	216	233
85°	28	29	28	28	27	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1403.8	1403.8	1403.8	1403.8	1403.8
2.5°	1411.6	1395.1	1405.5	1399.5	1409.0
5°	1407.3	1390.8	1401.2	1396.0	1405.5
7.5°	1399.5	1383.0	1393.4	1388.2	1396.0
10°	1390.8	1373.5	1384.7	1379.5	1387.3
12.5°	1379.5	1363.0	1373.5	1369.1	1376.1
15°	1363.0	1347.4	1357.0	1353.5	1358.7
17.5°	1343.1	1327.5	1337.0	1334.4	1338.8
20°	1321.4	1306.7	1316.2	1313.6	1318.0
22.5°	1297.1	1281.5	1290.2	1288.5	1291.9
25°	1267.7	1253.8	1262.5	1259.9	1263.3
27.5°	1236.5	1223.4	1230.4	1230.4	1232.1
30°	1202.6	1190.5	1197.4	1197.4	1198.3
32.5°	1166.2	1156.7	1161.0	1161.9	1161.9
35°	1127.2	1119.4	1122.9	1123.7	1123.7
37.5°	1086.4	1078.6	1081.2	1083.0	1083.0
40°	1043.1	1036.2	1037.9	1039.6	1038.8
42.5°	996.3	991.1	991.9	993.7	993.7
45°	948.6	944.2	944.2	946.0	946.0
47.5°	900.0	895.7	894.0	895.7	895.7
50°	847.1	842.8	841.1	842.8	842.8
52.5°	791.6	787.3	787.3	787.3	788.2
55°	734.4	730.1	728.3	730.1	730.9
57.5°	673.7	672.0	669.4	670.3	667.6
60°	608.7	608.7	606.1	607.8	606.1
62.5°	545.4	547.1	544.5	544.5	542.8
65°	480.4	482.1	479.5	479.5	477.8
67.5°	413.6	416.2	412.7	412.7	411.0
70°	344.2	349.4	346.0	346.8	345.1
72.5°	281.8	284.4	280.9	280.9	279.2
75°	219.4	221.1	217.6	218.5	215.9
77.5°	157.8	160.4	156.9	157.8	156.9
80°	105.8	106.7	104.0	104.9	103.2
82.5°	61.6	62.4	61.6	60.7	59.8
85°	27.7	28.6	27.7	27.7	26.9
87.5°	6.9	6.9	6.9	6.9	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)