

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: P973917

Luminaire Tested: FLR2-22-50HE-L840-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973917
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-L840-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

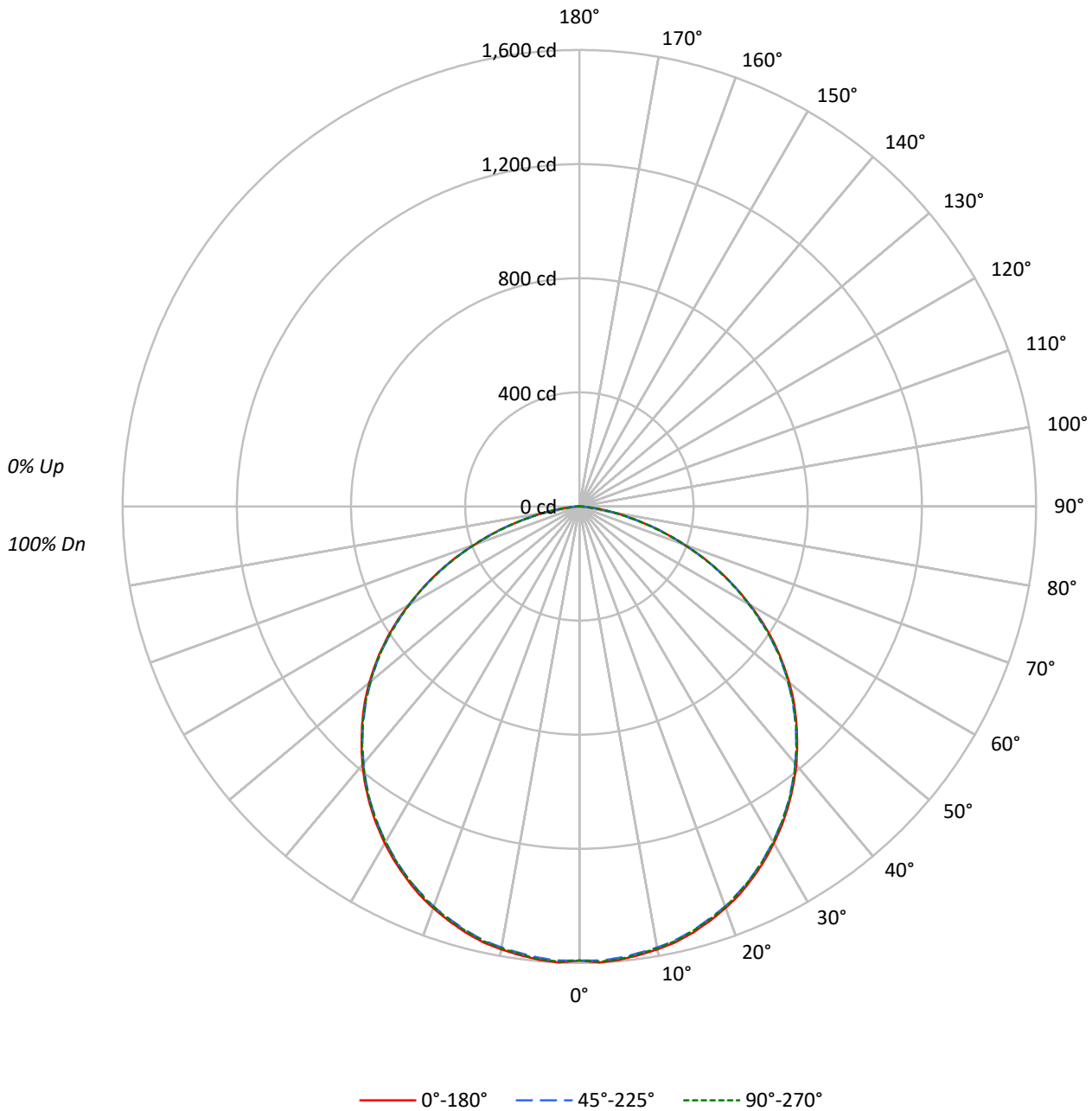
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4450.2 lumens
Efficiency: N/A
Efficacy: 111.3 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									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°	4282	4282	4282
5°	4309	4291	4304
10°	4308	4289	4297
15°	4305	4285	4291
20°	4290	4273	4278
25°	4267	4249	4252
30°	4236	4218	4221
35°	4198	4182	4185
40°	4154	4133	4136
45°	4092	4074	4081
50°	4020	3991	4000
55°	3906	3873	3887
60°	3714	3698	3698
65°	3467	3461	3449
70°	3070	3086	3078
75°	2586	2565	2544
80°	1858	1827	1813
85°	973	973	942

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4092 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.7	3.4
10°-20°	433.3	9.7
20°-30°	658.5	14.8
30°-40°	796.0	17.9
40°-50°	826.2	18.6
50°-60°	738.6	16.6
60°-70°	537.0	12.1
70°-80°	264.1	5.9
80°-90°	45.8	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°	1242.5	27.9
0°-40°	2038.5	45.8
0°-60°	3603.3	81.0
0°-90°	4450.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4450.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1591	1591	1591	1591	1591	
5°	1595	1577	1588	1582	1593	152
15°	1545	1527	1538	1534	1540	436
25°	1437	1421	1431	1428	1432	662
35°	1278	1269	1273	1274	1274	799
45°	1075	1070	1070	1072	1072	829
55°	832	828	826	828	829	742
65°	544	546	544	544	542	537
75°	249	251	247	248	245	264
85°	32	32	32	32	30	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1591.3	1591.3	1591.3	1591.3	1591.3
2.5°	1600.2	1581.5	1593.3	1586.4	1597.2
5°	1595.3	1576.6	1588.4	1582.5	1593.3
7.5°	1586.4	1567.7	1579.5	1573.6	1582.5
10°	1576.6	1556.9	1569.7	1563.8	1572.7
12.5°	1563.8	1545.1	1556.9	1552.0	1559.9
15°	1545.1	1527.4	1538.2	1534.3	1540.2
17.5°	1522.5	1504.8	1515.6	1512.7	1517.6
20°	1497.9	1481.2	1492.1	1489.1	1494.0
22.5°	1470.4	1452.7	1462.6	1460.6	1464.5
25°	1437.0	1421.3	1431.1	1428.2	1432.1
27.5°	1401.6	1386.9	1394.7	1394.7	1396.7
30°	1363.3	1349.5	1357.4	1357.4	1358.4
32.5°	1322.0	1311.2	1316.1	1317.1	1317.1
35°	1277.8	1268.9	1272.9	1273.8	1273.8
37.5°	1231.6	1222.7	1225.7	1227.7	1227.7
40°	1182.4	1174.6	1176.5	1178.5	1177.5
42.5°	1129.4	1123.5	1124.4	1126.4	1126.4
45°	1075.3	1070.4	1070.4	1072.4	1072.4
47.5°	1020.3	1015.3	1013.4	1015.3	1015.3
50°	960.3	955.4	953.4	955.4	955.4
52.5°	897.4	892.5	892.5	892.5	893.5
55°	832.5	827.6	825.6	827.6	828.6
57.5°	763.7	761.8	758.8	759.8	756.8
60°	690.0	690.0	687.1	689.0	687.1
62.5°	618.2	620.2	617.3	617.3	615.3
65°	544.5	546.5	543.5	543.5	541.6
67.5°	468.8	471.8	467.9	467.9	465.9
70°	390.2	396.1	392.2	393.2	391.2
72.5°	319.4	322.4	318.5	318.5	316.5
75°	248.7	250.6	246.7	247.7	244.7
77.5°	178.9	181.8	177.9	178.9	177.9
80°	119.9	120.9	117.9	118.9	117.0
82.5°	69.8	70.8	69.8	68.8	67.8
85°	31.5	32.4	31.5	31.5	30.5
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)