

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: P974049

Luminaire Tested: FLR2-22-50HE-L950-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974049
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-L950-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

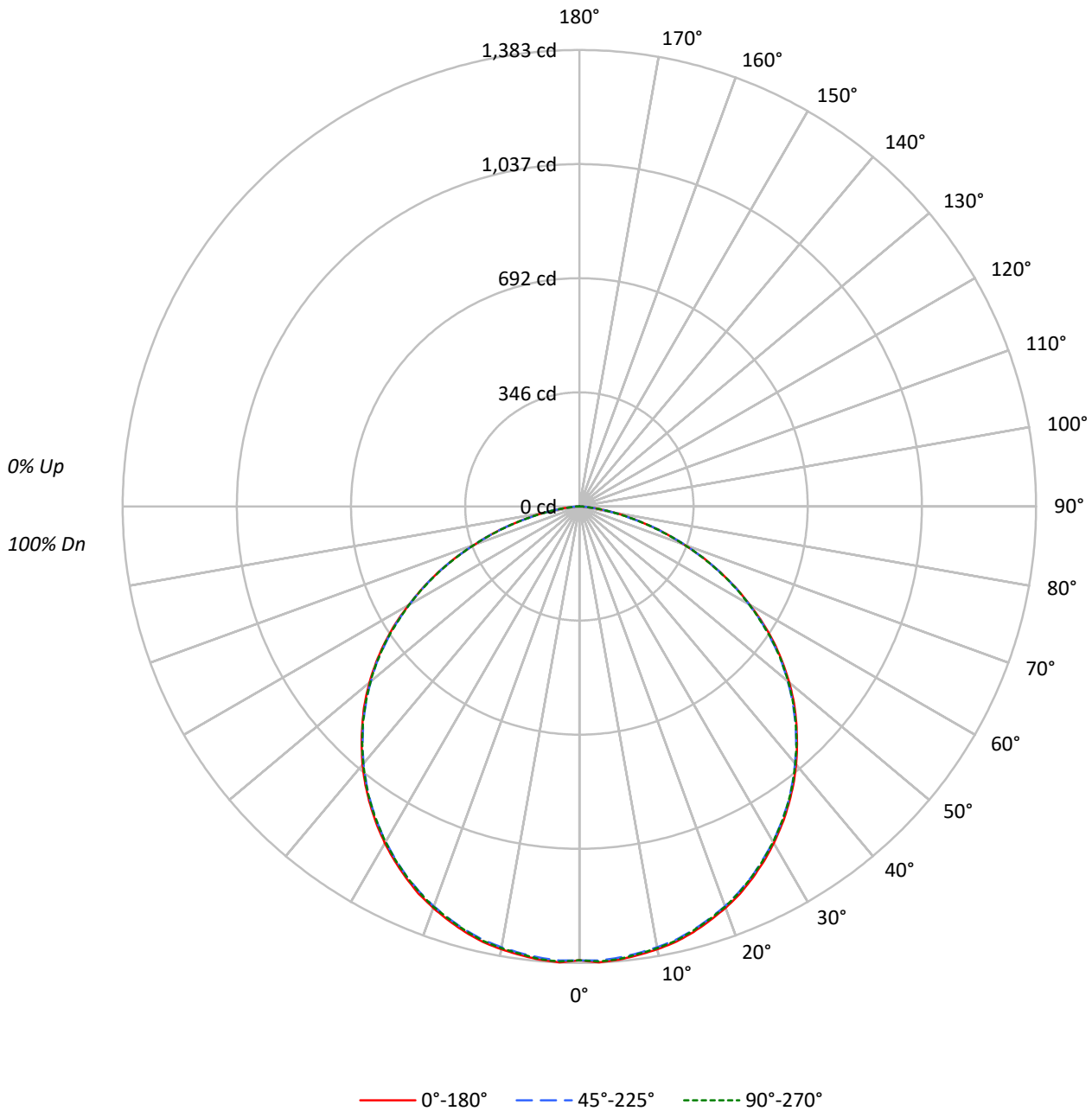
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3845.3 lumens
Efficiency: N/A
Efficacy: 96.1 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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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°	3700	3700	3700
5°	3723	3707	3719
10°	3722	3706	3713
15°	3719	3703	3708
20°	3706	3692	3697
25°	3687	3672	3674
30°	3660	3645	3647
35°	3627	3613	3616
40°	3589	3571	3574
45°	3536	3520	3526
50°	3474	3449	3456
55°	3375	3347	3359
60°	3209	3195	3195
65°	2996	2991	2980
70°	2653	2666	2659
75°	2234	2217	2199
80°	1605	1579	1567
85°	840	840	812

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3536 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	3.4
10°-20°	374.4	9.7
20°-30°	569.0	14.8
30°-40°	687.8	17.9
40°-50°	713.9	18.6
50°-60°	638.2	16.6
60°-70°	464.0	12.1
70°-80°	228.2	5.9
80°-90°	39.6	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°	1073.7	27.9
0°-40°	1761.4	45.8
0°-60°	3113.5	81.0
0°-90°	3845.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3845.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1375	1375	1375	1375	1375	
5°	1378	1362	1372	1367	1377	131
15°	1335	1320	1329	1326	1331	377
25°	1242	1228	1237	1234	1237	572
35°	1104	1096	1100	1101	1101	691
45°	929	925	925	927	927	717
55°	719	715	713	715	716	641
65°	470	472	470	470	468	464
75°	215	217	213	214	212	228
85°	27	28	27	27	26	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1375.0	1375.0	1375.0	1375.0	1375.0
2.5°	1382.7	1366.5	1376.7	1370.8	1380.1
5°	1378.4	1362.3	1372.5	1367.4	1376.7
7.5°	1370.8	1354.6	1364.8	1359.7	1367.4
10°	1362.3	1345.3	1356.3	1351.2	1358.9
12.5°	1351.2	1335.1	1345.3	1341.1	1347.9
15°	1335.1	1319.8	1329.2	1325.8	1330.9
17.5°	1315.6	1300.3	1309.6	1307.1	1311.3
20°	1294.3	1279.9	1289.2	1286.7	1290.9
22.5°	1270.6	1255.3	1263.8	1262.1	1265.5
25°	1241.7	1228.1	1236.6	1234.0	1237.4
27.5°	1211.1	1198.4	1205.2	1205.2	1206.9
30°	1178.0	1166.1	1172.9	1172.9	1173.7
32.5°	1142.3	1133.0	1137.2	1138.1	1138.1
35°	1104.1	1096.5	1099.9	1100.7	1100.7
37.5°	1064.2	1056.5	1059.1	1060.8	1060.8
40°	1021.7	1014.9	1016.6	1018.3	1017.5
42.5°	975.9	970.8	971.6	973.3	973.3
45°	929.1	924.9	924.9	926.6	926.6
47.5°	881.6	877.3	875.6	877.3	877.3
50°	829.8	825.5	823.8	825.5	825.5
52.5°	775.4	771.2	771.2	771.2	772.0
55°	719.4	715.1	713.4	715.1	716.0
57.5°	659.9	658.2	655.7	656.5	654.0
60°	596.2	596.2	593.7	595.4	593.7
62.5°	534.2	535.9	533.4	533.4	531.7
65°	470.5	472.2	469.7	469.7	468.0
67.5°	405.1	407.7	404.3	404.3	402.6
70°	337.2	342.3	338.9	339.7	338.0
72.5°	276.0	278.6	275.2	275.2	273.5
75°	214.9	216.6	213.2	214.0	211.5
77.5°	154.6	157.1	153.7	154.6	153.7
80°	103.6	104.5	101.9	102.8	101.1
82.5°	60.3	61.2	60.3	59.5	58.6
85°	27.2	28.0	27.2	27.2	26.3
87.5°	6.8	6.8	6.8	6.8	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)