

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: P973785

Luminaire Tested: FLR2-22-50HE-L930-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973785
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-L930-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

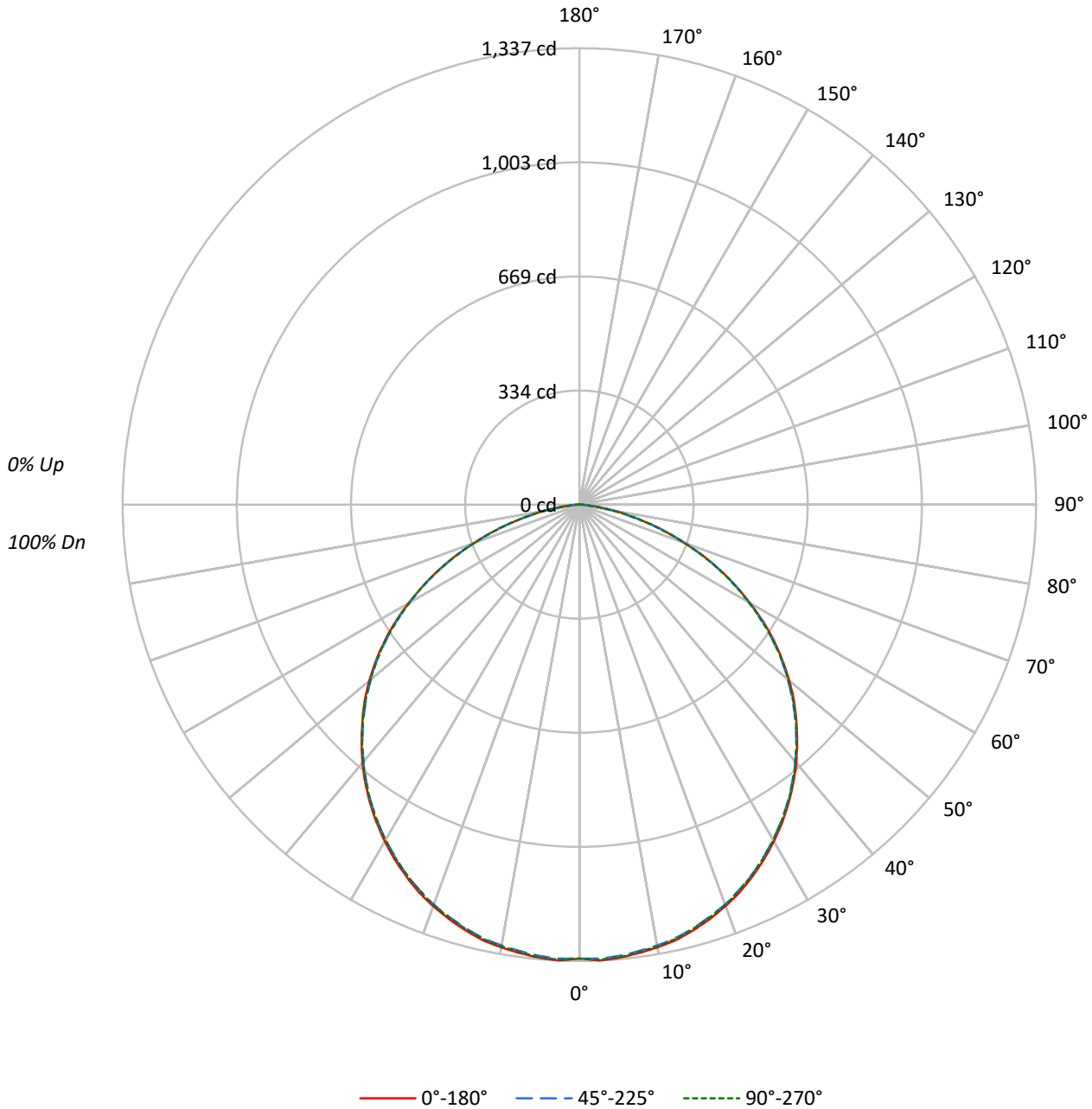
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3718.7 lumens
Efficiency: N/A
Efficacy: 93.0 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				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°	3578	3578	3578
5°	3601	3585	3596
10°	3600	3584	3591
15°	3597	3581	3585
20°	3584	3570	3575
25°	3565	3551	3553
30°	3540	3525	3527
35°	3507	3494	3497
40°	3471	3453	3457
45°	3419	3404	3410
50°	3359	3335	3342
55°	3264	3237	3248
60°	3103	3090	3090
65°	2897	2892	2882
70°	2566	2578	2572
75°	2161	2144	2126
80°	1553	1528	1514
85°	812	812	787

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3419 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	3.4
10°-20°	362.1	9.7
20°-30°	550.3	14.8
30°-40°	665.1	17.9
40°-50°	690.4	18.6
50°-60°	617.2	16.6
60°-70°	448.8	12.1
70°-80°	220.7	5.9
80°-90°	38.3	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°	1038.3	27.9
0°-40°	1703.4	45.8
0°-60°	3011.0	81.0
0°-90°	3718.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3718.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1330	1330	1330	1330	1330	
5°	1333	1317	1327	1322	1331	127
15°	1291	1276	1285	1282	1287	364
25°	1201	1188	1196	1193	1197	553
35°	1068	1060	1064	1064	1064	668
45°	898	894	894	896	896	693
55°	696	692	690	692	692	620
65°	455	457	454	454	453	449
75°	208	209	206	207	204	221
85°	26	27	26	26	26	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1329.7	1329.7	1329.7	1329.7	1329.7
2.5°	1337.1	1321.5	1331.4	1325.6	1334.7
5°	1333.0	1317.4	1327.3	1322.4	1331.4
7.5°	1325.6	1310.0	1319.9	1315.0	1322.4
10°	1317.4	1301.0	1311.7	1306.8	1314.1
12.5°	1306.8	1291.1	1301.0	1296.9	1303.5
15°	1291.1	1276.4	1285.4	1282.1	1287.0
17.5°	1272.3	1257.5	1266.5	1264.0	1268.1
20°	1251.7	1237.8	1246.8	1244.3	1248.4
22.5°	1228.7	1213.9	1222.2	1220.5	1223.8
25°	1200.8	1187.7	1195.9	1193.4	1196.7
27.5°	1171.2	1158.9	1165.5	1165.5	1167.1
30°	1139.2	1127.7	1134.3	1134.3	1135.1
32.5°	1104.7	1095.7	1099.8	1100.6	1100.6
35°	1067.7	1060.3	1063.6	1064.5	1064.5
37.5°	1029.1	1021.7	1024.2	1025.9	1025.9
40°	988.1	981.5	983.1	984.8	984.0
42.5°	943.7	938.8	939.6	941.3	941.3
45°	898.5	894.4	894.4	896.1	896.1
47.5°	852.6	848.4	846.8	848.4	848.4
50°	802.4	798.3	796.7	798.3	798.3
52.5°	749.9	745.8	745.8	745.8	746.6
55°	695.7	691.6	689.9	691.6	692.4
57.5°	638.2	636.5	634.1	634.9	632.4
60°	576.6	576.6	574.1	575.8	574.1
62.5°	516.6	518.3	515.8	515.8	514.2
65°	455.0	456.7	454.2	454.2	452.6
67.5°	391.8	394.2	391.0	391.0	389.3
70°	326.1	331.0	327.7	328.5	326.9
72.5°	266.9	269.4	266.1	266.1	264.5
75°	207.8	209.4	206.2	207.0	204.5
77.5°	149.5	151.9	148.7	149.5	148.7
80°	100.2	101.0	98.6	99.4	97.7
82.5°	58.3	59.1	58.3	57.5	56.7
85°	26.3	27.1	26.3	26.3	25.5
87.5°	6.6	6.6	6.6	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)