

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: P973791

Luminaire Tested: FLR2-22-50HE-L930-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973791
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-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

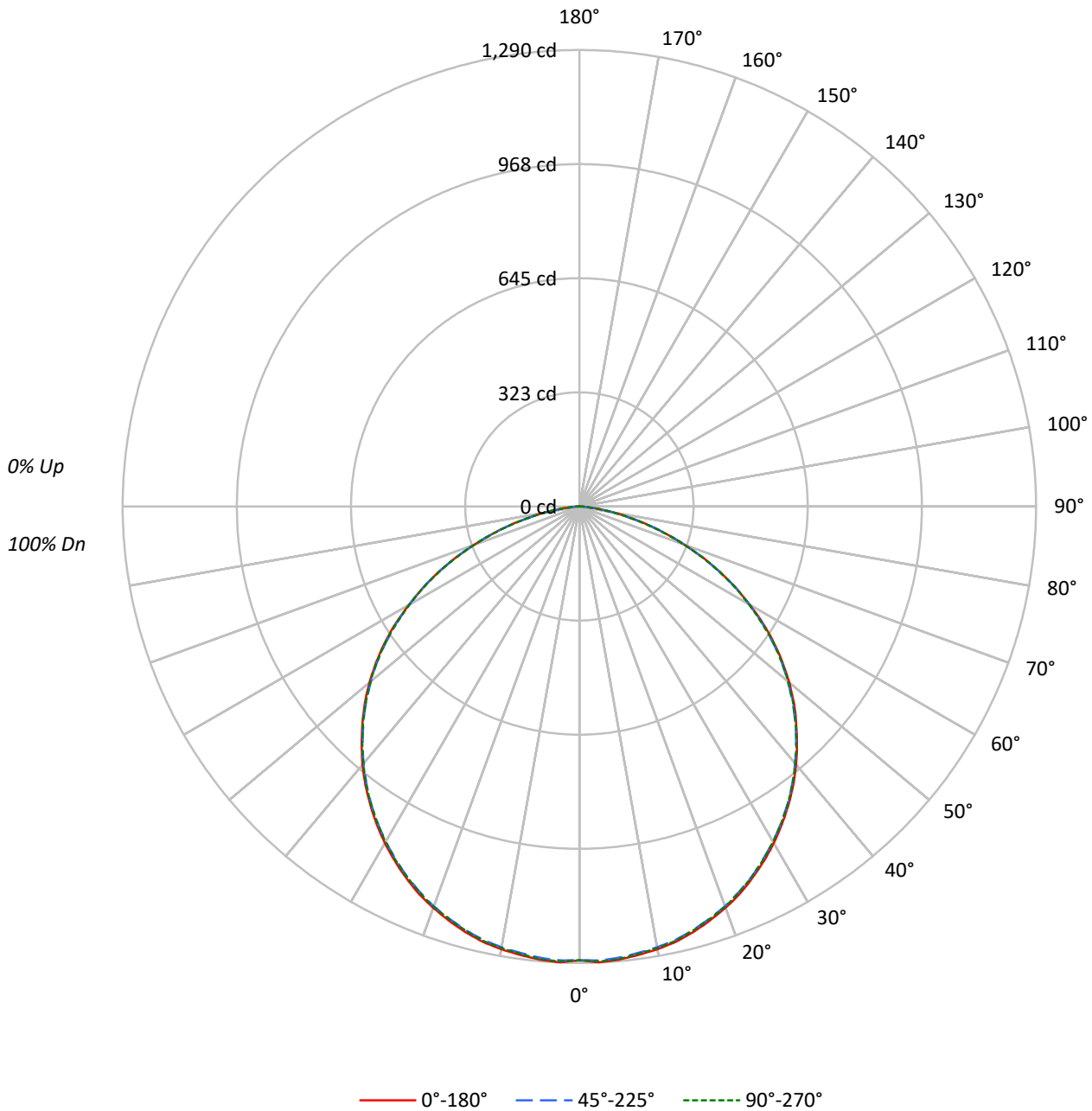
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3586.0 lumens
Efficiency: N/A
Efficacy: 89.7 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	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°	3451	3451	3451
5°	3472	3458	3468
10°	3471	3456	3463
15°	3469	3453	3458
20°	3457	3443	3448
25°	3438	3424	3426
30°	3414	3399	3401
35°	3383	3370	3372
40°	3347	3331	3333
45°	3298	3282	3288
50°	3239	3216	3223
55°	3148	3121	3133
60°	2992	2979	2979
65°	2794	2789	2779
70°	2474	2486	2480
75°	2084	2067	2050
80°	1497	1472	1461
85°	781	781	760

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3298 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.4	3.4
10°-20°	349.2	9.7
20°-30°	530.7	14.8
30°-40°	641.4	17.9
40°-50°	665.7	18.6
50°-60°	595.2	16.6
60°-70°	432.7	12.1
70°-80°	212.8	5.9
80°-90°	36.9	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°	1001.3	27.9
0°-40°	1642.7	45.8
0°-60°	2903.6	81.0
0°-90°	3586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3586.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1282	1282	1282	1282	1282	
5°	1286	1270	1280	1275	1284	122
15°	1245	1231	1240	1236	1241	351
25°	1158	1145	1153	1151	1154	534
35°	1030	1022	1026	1026	1026	644
45°	866	862	862	864	864	668
55°	671	667	665	667	668	598
65°	439	440	438	438	436	433
75°	200	202	199	200	197	213
85°	25	26	25	25	25	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1282.3	1282.3	1282.3	1282.3	1282.3
2.5°	1289.5	1274.4	1283.9	1278.4	1287.1
5°	1285.5	1270.4	1280.0	1275.2	1283.9
7.5°	1278.4	1263.3	1272.8	1268.1	1275.2
10°	1270.4	1254.6	1264.9	1260.2	1267.3
12.5°	1260.2	1245.1	1254.6	1250.6	1257.0
15°	1245.1	1230.8	1239.6	1236.4	1241.1
17.5°	1226.9	1212.6	1221.3	1219.0	1222.9
20°	1207.1	1193.6	1202.3	1200.0	1203.9
22.5°	1184.9	1170.7	1178.6	1177.0	1180.2
25°	1158.0	1145.3	1153.2	1150.8	1154.0
27.5°	1129.5	1117.6	1123.9	1123.9	1125.5
30°	1098.6	1087.5	1093.8	1093.8	1094.6
32.5°	1065.3	1056.6	1060.6	1061.3	1061.3
35°	1029.7	1022.5	1025.7	1026.5	1026.5
37.5°	992.4	985.3	987.7	989.3	989.3
40°	952.8	946.5	948.1	949.7	948.9
42.5°	910.1	905.3	906.1	907.7	907.7
45°	866.5	862.5	862.5	864.1	864.1
47.5°	822.1	818.2	816.6	818.2	818.2
50°	773.8	769.9	768.3	769.9	769.9
52.5°	723.1	719.2	719.2	719.2	720.0
55°	670.9	666.9	665.3	666.9	667.7
57.5°	615.4	613.8	611.5	612.3	609.9
60°	556.0	556.0	553.6	555.2	553.6
62.5°	498.2	499.8	497.4	497.4	495.8
65°	438.8	440.4	438.0	438.0	436.4
67.5°	377.8	380.2	377.0	377.0	375.4
70°	314.4	319.2	316.0	316.8	315.2
72.5°	257.4	259.8	256.6	256.6	255.0
75°	200.4	202.0	198.8	199.6	197.2
77.5°	144.2	146.5	143.4	144.2	143.4
80°	96.6	97.4	95.0	95.8	94.3
82.5°	56.2	57.0	56.2	55.4	54.7
85°	25.3	26.1	25.3	25.3	24.6
87.5°	6.3	6.3	6.3	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)