

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: P973941

Luminaire Tested: FLR2-22-50HE-L940-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973941
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-L940-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

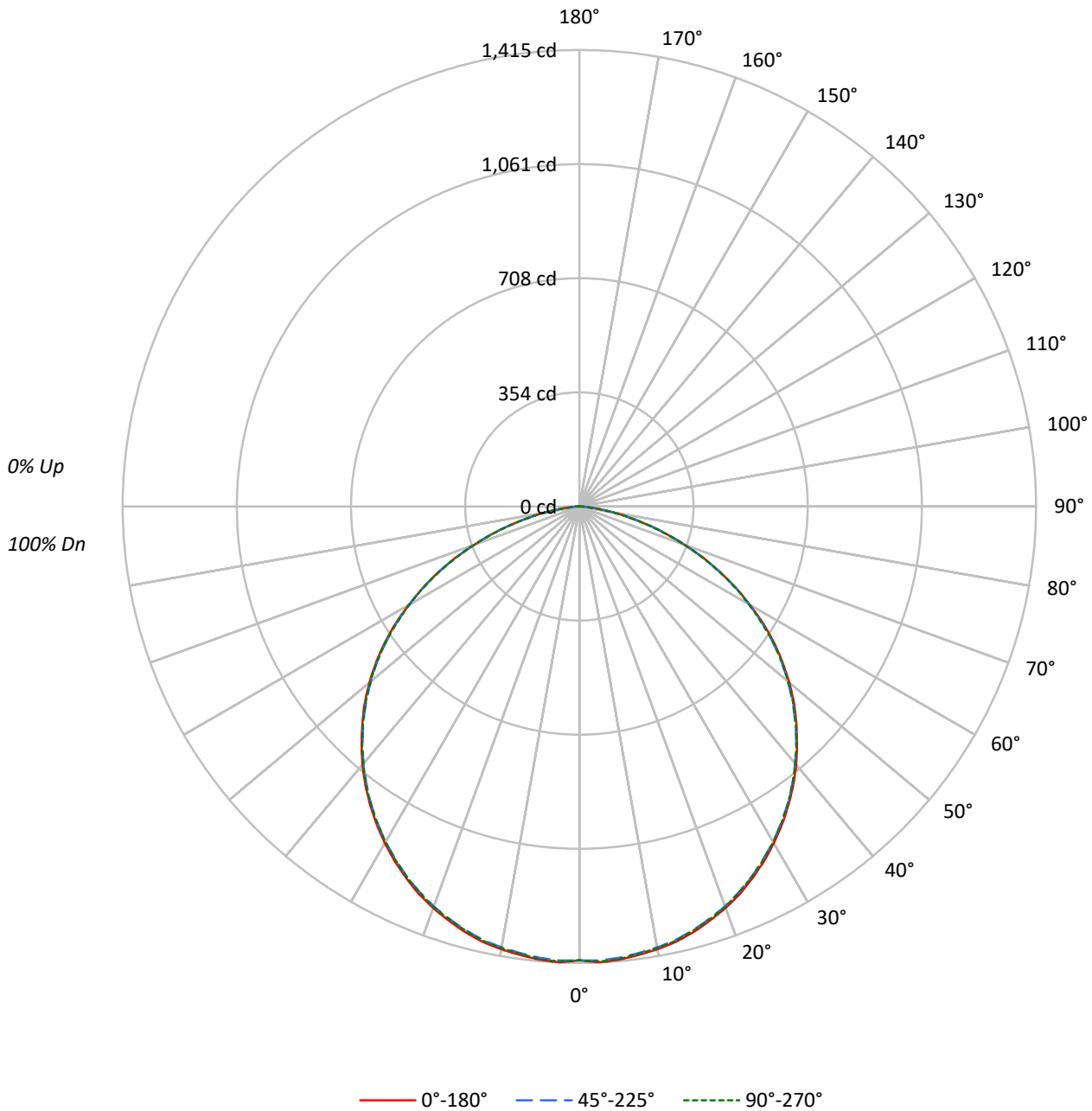
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3934.5 lumens
Efficiency: N/A
Efficacy: 98.4 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 (A_{in}): 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°	3786	3786	3786
5°	3810	3793	3805
10°	3809	3792	3799
15°	3806	3789	3794
20°	3793	3778	3783
25°	3772	3757	3759
30°	3745	3729	3732
35°	3711	3697	3700
40°	3672	3654	3657
45°	3618	3602	3608
50°	3554	3529	3536
55°	3453	3425	3437
60°	3283	3269	3269
65°	3065	3060	3049
70°	2714	2728	2722
75°	2286	2268	2250
80°	1643	1616	1602
85°	858	858	831

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3618 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.2	3.4
10°-20°	383.1	9.7
20°-30°	582.2	14.8
30°-40°	703.7	17.9
40°-50°	730.4	18.6
50°-60°	653.0	16.6
60°-70°	474.8	12.1
70°-80°	233.5	5.9
80°-90°	40.5	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°	1098.6	27.9
0°-40°	1802.3	45.8
0°-60°	3185.8	81.0
0°-90°	3934.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3934.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1407	1407	1407	1407	1407	
5°	1410	1394	1404	1399	1409	134
15°	1366	1350	1360	1356	1362	385
25°	1270	1257	1265	1263	1266	586
35°	1130	1122	1125	1126	1126	707
45°	951	946	946	948	948	733
55°	736	732	730	732	733	656
65°	481	483	481	481	479	475
75°	220	222	218	219	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°	1406.9	1406.9	1406.9	1406.9	1406.9
2.5°	1414.7	1398.2	1408.7	1402.6	1412.1
5°	1410.4	1393.9	1404.3	1399.1	1408.7
7.5°	1402.6	1386.1	1396.5	1391.3	1399.1
10°	1393.9	1376.5	1387.8	1382.6	1390.4
12.5°	1382.6	1366.1	1376.5	1372.2	1379.1
15°	1366.1	1350.4	1360.0	1356.5	1361.7
17.5°	1346.1	1330.5	1340.0	1337.4	1341.8
20°	1324.4	1309.6	1319.2	1316.5	1320.9
22.5°	1300.0	1284.4	1293.1	1291.3	1294.8
25°	1270.5	1256.6	1265.3	1262.7	1266.1
27.5°	1239.2	1226.2	1233.1	1233.1	1234.9
30°	1205.3	1193.2	1200.1	1200.1	1201.0
32.5°	1168.8	1159.3	1163.6	1164.5	1164.5
35°	1129.7	1121.9	1125.4	1126.2	1126.2
37.5°	1088.9	1081.0	1083.7	1085.4	1085.4
40°	1045.4	1038.5	1040.2	1041.9	1041.1
42.5°	998.5	993.3	994.1	995.9	995.9
45°	950.7	946.4	946.4	948.1	948.1
47.5°	902.0	897.7	895.9	897.7	897.7
50°	849.0	844.7	842.9	844.7	844.7
52.5°	793.4	789.1	789.1	789.1	789.9
55°	736.1	731.7	730.0	731.7	732.6
57.5°	675.2	673.5	670.9	671.7	669.1
60°	610.0	610.0	607.4	609.2	607.4
62.5°	546.6	548.3	545.7	545.7	544.0
65°	481.4	483.2	480.6	480.6	478.8
67.5°	414.5	417.1	413.6	413.6	411.9
70°	345.0	350.2	346.7	347.6	345.9
72.5°	282.4	285.0	281.6	281.6	279.8
75°	219.9	221.6	218.1	219.0	216.4
77.5°	158.2	160.8	157.3	158.2	157.3
80°	106.0	106.9	104.3	105.2	103.4
82.5°	61.7	62.6	61.7	60.8	60.0
85°	27.8	28.7	27.8	27.8	26.9
87.5°	7.0	7.0	7.0	7.0	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)