

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: P973786

Luminaire Tested: FLR2-22-60HE-L930-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973786
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: FLR2-22-60HE-L930-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

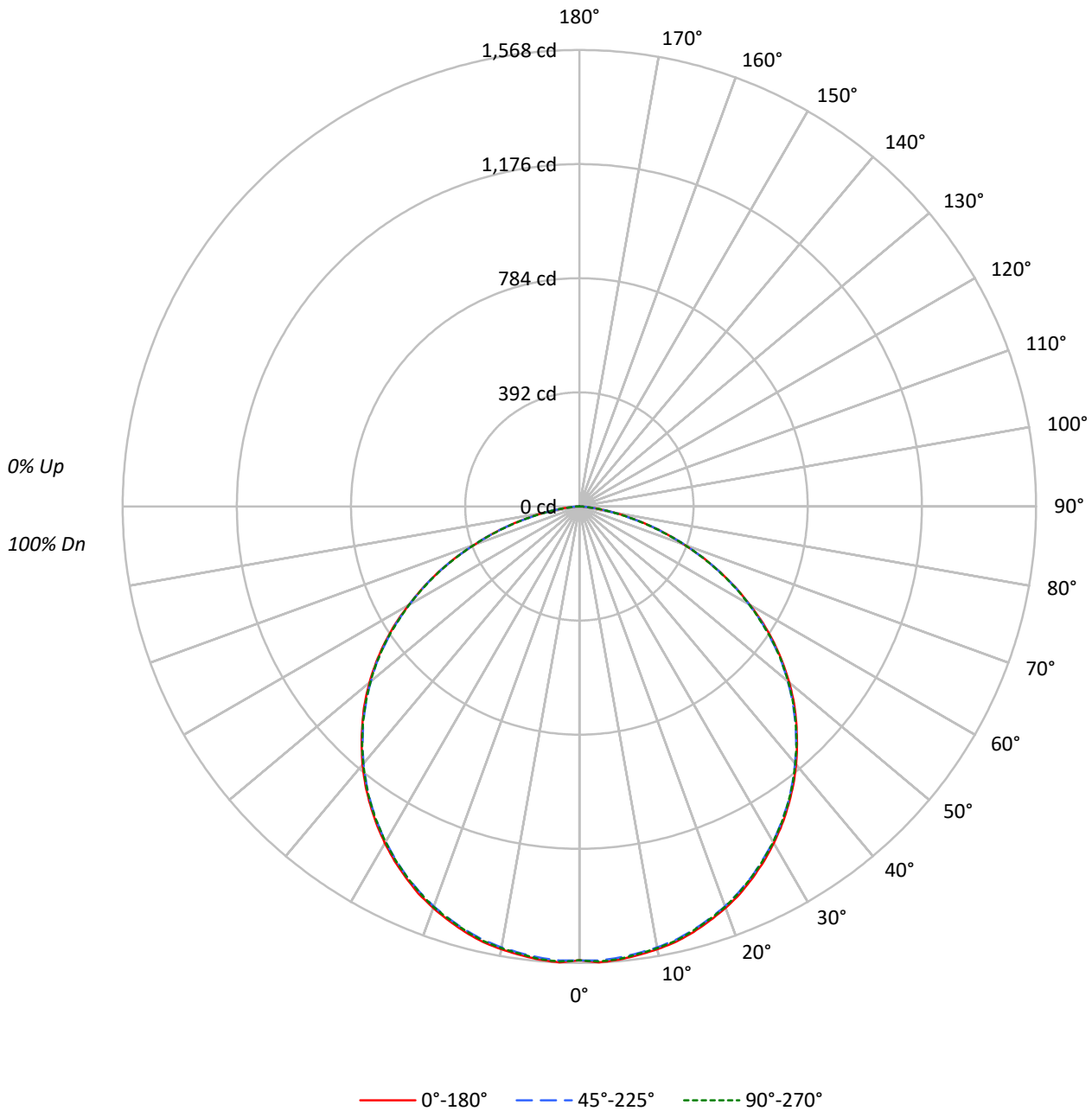
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4359.9 lumens
Efficiency: N/A
Efficacy: 92.0 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): 47.4
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°	4195	4195	4195
5°	4222	4203	4217
10°	4221	4202	4210
15°	4217	4198	4204
20°	4203	4186	4192
25°	4180	4163	4166
30°	4150	4132	4135
35°	4112	4096	4100
40°	4069	4049	4052
45°	4009	3991	3998
50°	3939	3911	3918
55°	3826	3795	3809
60°	3638	3623	3623
65°	3397	3391	3379
70°	3008	3023	3016
75°	2533	2513	2493
80°	1821	1791	1776
85°	951	951	923

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4009 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.6	3.4
10°-20°	424.5	9.7
20°-30°	645.2	14.8
30°-40°	779.8	17.9
40°-50°	809.4	18.6
50°-60°	723.6	16.6
60°-70°	526.1	12.1
70°-80°	258.7	5.9
80°-90°	44.9	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°	1217.3	27.9
0°-40°	1997.1	45.8
0°-60°	3530.2	81.0
0°-90°	4359.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4359.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1559	1559	1559	1559	1559	
5°	1563	1545	1556	1550	1561	149
15°	1514	1496	1507	1503	1509	427
25°	1408	1392	1402	1399	1403	649
35°	1252	1243	1247	1248	1248	783
45°	1054	1049	1049	1051	1051	813
55°	816	811	809	811	812	727
65°	534	535	532	532	531	526
75°	244	246	242	243	240	259
85°	31	32	31	31	30	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1559.0	1559.0	1559.0	1559.0	1559.0
2.5°	1567.7	1549.4	1561.0	1554.2	1564.8
5°	1562.9	1544.6	1556.1	1550.4	1561.0
7.5°	1554.2	1535.9	1547.5	1541.7	1550.4
10°	1544.6	1525.3	1537.8	1532.1	1540.7
12.5°	1532.1	1513.8	1525.3	1520.5	1528.2
15°	1513.8	1496.4	1507.0	1503.2	1509.0
17.5°	1491.6	1474.3	1484.9	1482.0	1486.8
20°	1467.6	1451.2	1461.8	1458.9	1463.7
22.5°	1440.6	1423.3	1432.9	1431.0	1434.8
25°	1407.8	1392.4	1402.1	1399.2	1403.0
27.5°	1373.2	1358.7	1366.4	1366.4	1368.4
30°	1335.6	1322.1	1329.8	1329.8	1330.8
32.5°	1295.2	1284.6	1289.4	1290.4	1290.4
35°	1251.8	1243.2	1247.0	1248.0	1248.0
37.5°	1206.6	1197.9	1200.8	1202.7	1202.7
40°	1158.4	1150.7	1152.7	1154.6	1153.6
42.5°	1106.4	1100.7	1101.6	1103.6	1103.6
45°	1053.5	1048.7	1048.7	1050.6	1050.6
47.5°	999.6	994.7	992.8	994.7	994.7
50°	940.8	936.0	934.1	936.0	936.0
52.5°	879.2	874.4	874.4	874.4	875.3
55°	815.6	810.8	808.9	810.8	811.8
57.5°	748.2	746.3	743.4	744.4	741.5
60°	676.0	676.0	673.1	675.0	673.1
62.5°	605.7	607.6	604.7	604.7	602.8
65°	533.5	535.4	532.5	532.5	530.6
67.5°	459.3	462.2	458.4	458.4	456.4
70°	382.3	388.1	384.2	385.2	383.3
72.5°	313.0	315.9	312.0	312.0	310.1
75°	243.6	245.6	241.7	242.7	239.8
77.5°	175.3	178.1	174.3	175.3	174.3
80°	117.5	118.4	115.6	116.5	114.6
82.5°	68.4	69.3	68.4	67.4	66.4
85°	30.8	31.8	30.8	30.8	29.9
87.5°	7.7	7.7	7.7	7.7	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)