

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: P973769

Luminaire Tested: FLR2-22-20HE-L930-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973769
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: FLR2-22-20HE-L930-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

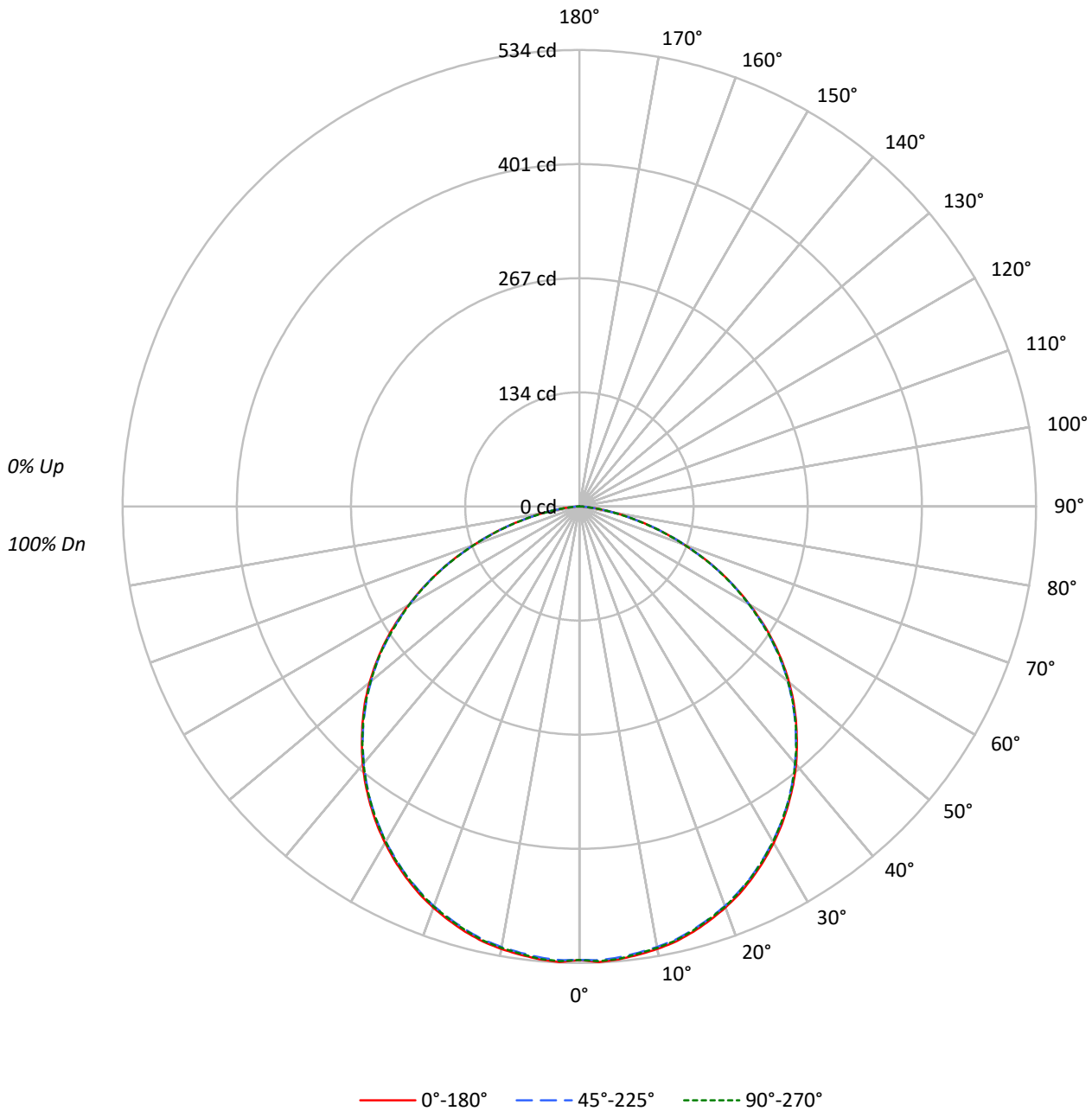
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1483.7 lumens
Efficiency: N/A
Efficacy: 100.3 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): 14.8
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

TEST NUMBER: P973769
CATALOG NUMBER: FLR2-22-20HE-L930-CP125

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	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																
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°	1428	1428	1428
5°	1437	1431	1435
10°	1436	1430	1433
15°	1435	1429	1431
20°	1430	1424	1426
25°	1423	1417	1418
30°	1412	1406	1407
35°	1399	1394	1395
40°	1385	1378	1379
45°	1364	1358	1361
50°	1340	1331	1333
55°	1302	1292	1296
60°	1238	1233	1233
65°	1156	1154	1150
70°	1024	1029	1026
75°	862	856	848
80°	620	609	604
85°	324	324	315

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1364 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	3.4
10°-20°	144.5	9.7
20°-30°	219.5	14.8
30°-40°	265.4	17.9
40°-50°	275.4	18.6
50°-60°	246.3	16.6
60°-70°	179.0	12.1
70°-80°	88.1	5.9
80°-90°	15.3	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°	414.3	27.9
0°-40°	679.6	45.8
0°-60°	1201.3	81.0
0°-90°	1483.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1483.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	530	530	530	530	530	
5°	532	526	530	528	531	51
15°	515	509	513	512	514	145
25°	479	474	477	476	478	221
35°	426	423	424	425	425	267
45°	358	357	357	358	358	277
55°	278	276	275	276	276	247
65°	182	182	181	181	181	179
75°	83	84	82	83	82	88
85°	10	11	10	10	10	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	530.5	530.5	530.5	530.5	530.5
2.5°	533.5	527.3	531.2	528.9	532.5
5°	531.9	525.6	529.6	527.6	531.2
7.5°	528.9	522.7	526.6	524.6	527.6
10°	525.6	519.1	523.3	521.4	524.3
12.5°	521.4	515.1	519.1	517.4	520.1
15°	515.1	509.2	512.8	511.5	513.5
17.5°	507.6	501.7	505.3	504.3	506.0
20°	499.4	493.8	497.4	496.5	498.1
22.5°	490.2	484.3	487.6	487.0	488.3
25°	479.1	473.9	477.1	476.1	477.5
27.5°	467.3	462.4	465.0	465.0	465.7
30°	454.5	449.9	452.6	452.6	452.9
32.5°	440.8	437.1	438.8	439.1	439.1
35°	426.0	423.1	424.4	424.7	424.7
37.5°	410.6	407.7	408.6	409.3	409.3
40°	394.2	391.6	392.3	392.9	392.6
42.5°	376.5	374.6	374.9	375.5	375.5
45°	358.5	356.9	356.9	357.5	357.5
47.5°	340.2	338.5	337.9	338.5	338.5
50°	320.2	318.5	317.9	318.5	318.5
52.5°	299.2	297.6	297.6	297.6	297.9
55°	277.6	275.9	275.3	275.9	276.2
57.5°	254.6	254.0	253.0	253.3	252.3
60°	230.0	230.0	229.1	229.7	229.1
62.5°	206.1	206.8	205.8	205.8	205.1
65°	181.5	182.2	181.2	181.2	180.6
67.5°	156.3	157.3	156.0	156.0	155.3
70°	130.1	132.1	130.8	131.1	130.4
72.5°	106.5	107.5	106.2	106.2	105.5
75°	82.9	83.6	82.3	82.6	81.6
77.5°	59.6	60.6	59.3	59.6	59.3
80°	40.0	40.3	39.3	39.7	39.0
82.5°	23.3	23.6	23.3	22.9	22.6
85°	10.5	10.8	10.5	10.5	10.2
87.5°	2.6	2.6	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)