

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: P973799

Luminaire Tested: FLR2-22-20HE-L930-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973799
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-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

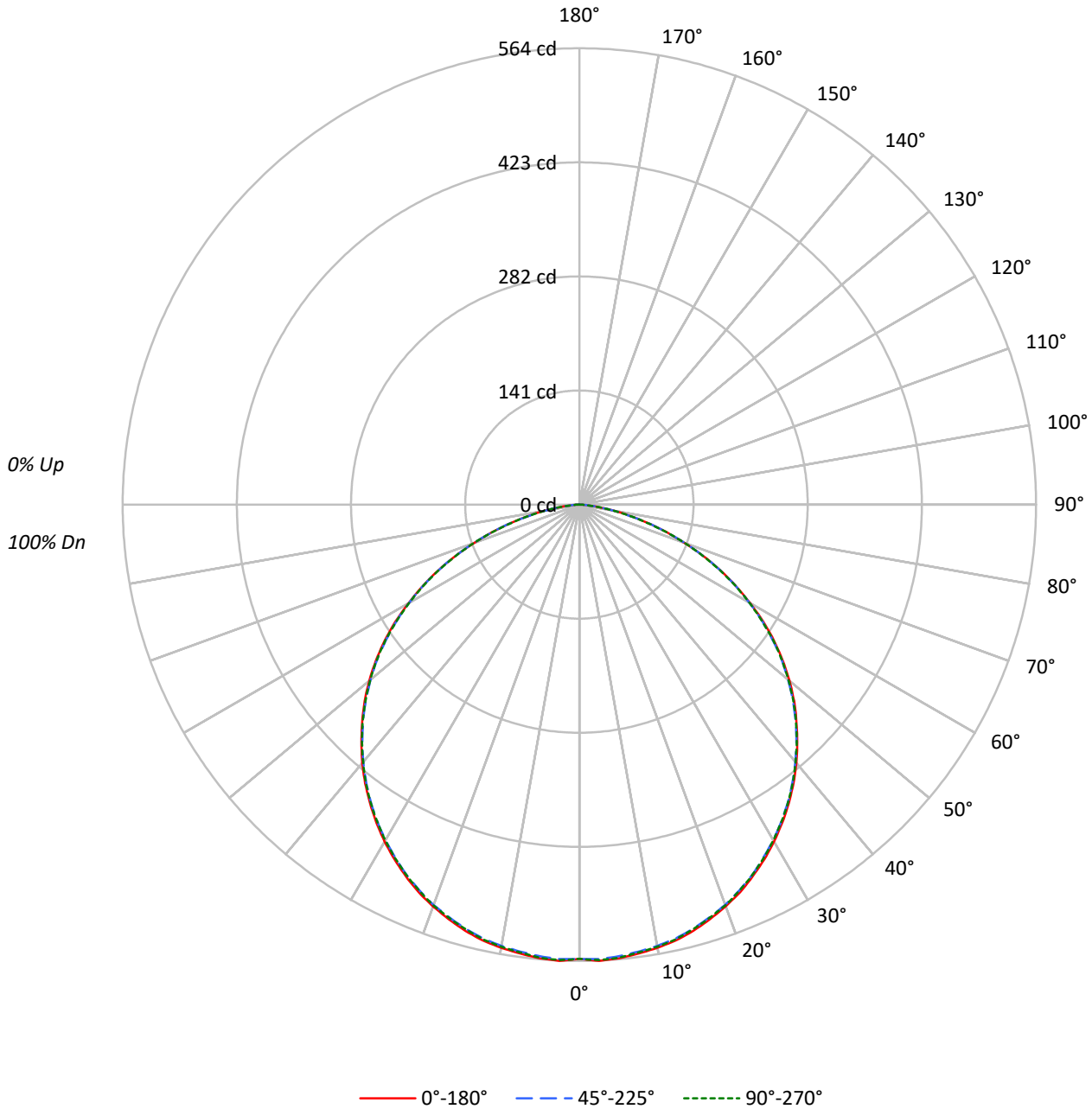
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1569.9 lumens
Efficiency: N/A
Efficacy: 106.1 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

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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°	1511	1511	1511
5°	1520	1514	1518
10°	1520	1513	1516
15°	1519	1512	1514
20°	1513	1507	1509
25°	1505	1499	1500
30°	1494	1488	1489
35°	1481	1475	1476
40°	1465	1458	1459
45°	1443	1437	1440
50°	1418	1408	1411
55°	1378	1367	1371
60°	1310	1305	1305
65°	1223	1221	1217
70°	1083	1089	1086
75°	912	905	897
80°	656	645	640
85°	343	343	330

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1443 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	3.4
10°-20°	152.9	9.7
20°-30°	232.3	14.8
30°-40°	280.8	17.9
40°-50°	291.5	18.6
50°-60°	260.6	16.6
60°-70°	189.5	12.1
70°-80°	93.2	5.9
80°-90°	16.2	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°	438.3	27.9
0°-40°	719.1	45.8
0°-60°	1271.1	81.0
0°-90°	1569.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1569.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	561	561	561	561	561	
5°	563	556	560	558	562	53
15°	545	539	543	541	543	154
25°	507	501	505	504	505	234
35°	451	448	449	449	449	282
45°	379	378	378	378	378	293
55°	294	292	291	292	292	262
65°	192	193	192	192	191	189
75°	88	88	87	87	86	93
85°	11	11	11	11	11	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	561.4	561.4	561.4	561.4	561.4
2.5°	564.5	557.9	562.1	559.6	563.5
5°	562.8	556.2	560.3	558.3	562.1
7.5°	559.6	553.1	557.2	555.1	558.3
10°	556.2	549.2	553.8	551.7	554.8
12.5°	551.7	545.1	549.2	547.5	550.3
15°	545.1	538.8	542.7	541.3	543.3
17.5°	537.1	530.9	534.7	533.6	535.4
20°	528.4	522.5	526.4	525.3	527.1
22.5°	518.7	512.5	516.0	515.3	516.6
25°	506.9	501.4	504.9	503.8	505.2
27.5°	494.5	489.3	492.0	492.0	492.7
30°	480.9	476.1	478.9	478.9	479.2
32.5°	466.4	462.6	464.3	464.6	464.6
35°	450.8	447.6	449.0	449.4	449.4
37.5°	434.5	431.3	432.4	433.1	433.1
40°	417.1	414.4	415.1	415.7	415.4
42.5°	398.4	396.3	396.7	397.4	397.4
45°	379.3	377.6	377.6	378.3	378.3
47.5°	359.9	358.2	357.5	358.2	358.2
50°	338.8	337.0	336.3	337.0	337.0
52.5°	316.6	314.8	314.8	314.8	315.2
55°	293.7	292.0	291.3	292.0	292.3
57.5°	269.4	268.7	267.7	268.0	267.0
60°	243.4	243.4	242.4	243.1	242.4
62.5°	218.1	218.8	217.8	217.8	217.1
65°	192.1	192.8	191.7	191.7	191.1
67.5°	165.4	166.4	165.1	165.1	164.4
70°	137.7	139.7	138.4	138.7	138.0
72.5°	112.7	113.7	112.3	112.3	111.7
75°	87.7	88.4	87.0	87.4	86.3
77.5°	63.1	64.1	62.8	63.1	62.8
80°	42.3	42.6	41.6	42.0	41.3
82.5°	24.6	25.0	24.6	24.3	23.9
85°	11.1	11.4	11.1	11.1	10.7
87.5°	2.8	2.8	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)