

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: P973597

Luminaire Tested: FLR2-22-20-L935-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973597
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: FLR2-22-20-L935-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

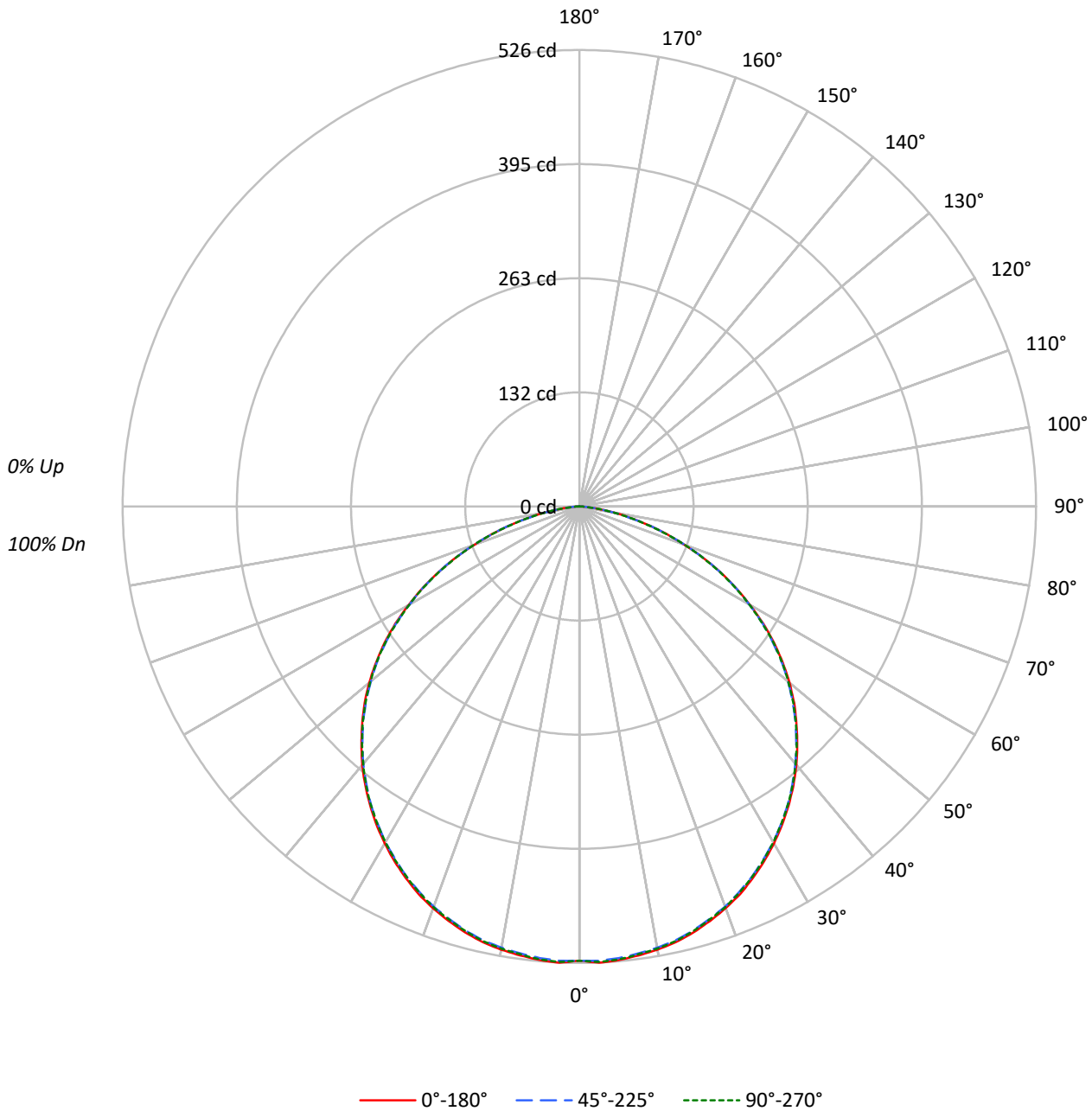
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1463.7 lumens
Efficiency: N/A
Efficacy: 96.9 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): 15.1
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°	1408	1408	1408
5°	1417	1411	1415
10°	1417	1411	1414
15°	1416	1409	1411
20°	1411	1405	1407
25°	1403	1398	1398
30°	1393	1387	1388
35°	1381	1375	1376
40°	1366	1359	1361
45°	1346	1340	1342
50°	1322	1313	1315
55°	1285	1274	1278
60°	1221	1216	1216
65°	1140	1138	1134
70°	1009	1015	1013
75°	850	843	837
80°	611	601	597
85°	318	318	309

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1346 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.6	3.4
10°-20°	142.5	9.7
20°-30°	216.6	14.8
30°-40°	261.8	17.9
40°-50°	271.7	18.6
50°-60°	242.9	16.6
60°-70°	176.6	12.1
70°-80°	86.8	5.9
80°-90°	15.1	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°	408.7	27.9
0°-40°	670.5	45.8
0°-60°	1185.2	81.0
0°-90°	1463.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1463.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	523	523	523	523	523	
5°	525	519	522	520	524	50
15°	508	502	506	505	507	143
25°	473	468	471	470	471	218
35°	420	417	419	419	419	263
45°	354	352	352	353	353	273
55°	274	272	272	272	272	244
65°	179	180	179	179	178	177
75°	82	82	81	82	80	87
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°	523.4	523.4	523.4	523.4	523.4
2.5°	526.3	520.2	524.0	521.8	525.3
5°	524.7	518.6	522.4	520.5	524.0
7.5°	521.8	515.6	519.5	517.6	520.5
10°	518.6	512.1	516.3	514.3	517.3
12.5°	514.3	508.2	512.1	510.5	513.1
15°	508.2	502.4	505.9	504.6	506.6
17.5°	500.8	495.0	498.5	497.5	499.2
20°	492.7	487.2	490.7	489.8	491.4
22.5°	483.6	477.8	481.0	480.4	481.7
25°	472.6	467.5	470.7	469.7	471.0
27.5°	461.0	456.2	458.7	458.7	459.4
30°	448.4	443.9	446.5	446.5	446.8
32.5°	434.8	431.3	432.9	433.2	433.2
35°	420.3	417.4	418.7	419.0	419.0
37.5°	405.1	402.2	403.1	403.8	403.8
40°	388.9	386.3	387.0	387.6	387.3
42.5°	371.5	369.5	369.8	370.5	370.5
45°	353.7	352.1	352.1	352.7	352.7
47.5°	335.6	334.0	333.3	334.0	334.0
50°	315.9	314.2	313.6	314.2	314.2
52.5°	295.2	293.5	293.5	293.5	293.9
55°	273.8	272.2	271.6	272.2	272.5
57.5°	251.2	250.5	249.6	249.9	248.9
60°	226.9	226.9	226.0	226.6	226.0
62.5°	203.3	204.0	203.0	203.0	202.4
65°	179.1	179.7	178.8	178.8	178.1
67.5°	154.2	155.2	153.9	153.9	153.2
70°	128.3	130.3	129.0	129.3	128.7
72.5°	105.1	106.0	104.7	104.7	104.1
75°	81.8	82.4	81.1	81.5	80.5
77.5°	58.8	59.8	58.5	58.8	58.5
80°	39.4	39.8	38.8	39.1	38.5
82.5°	23.0	23.3	23.0	22.6	22.3
85°	10.3	10.7	10.3	10.3	10.0
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)