

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: P973709

Luminaire Tested: FLR2-22-20-L950-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973709
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-L950-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

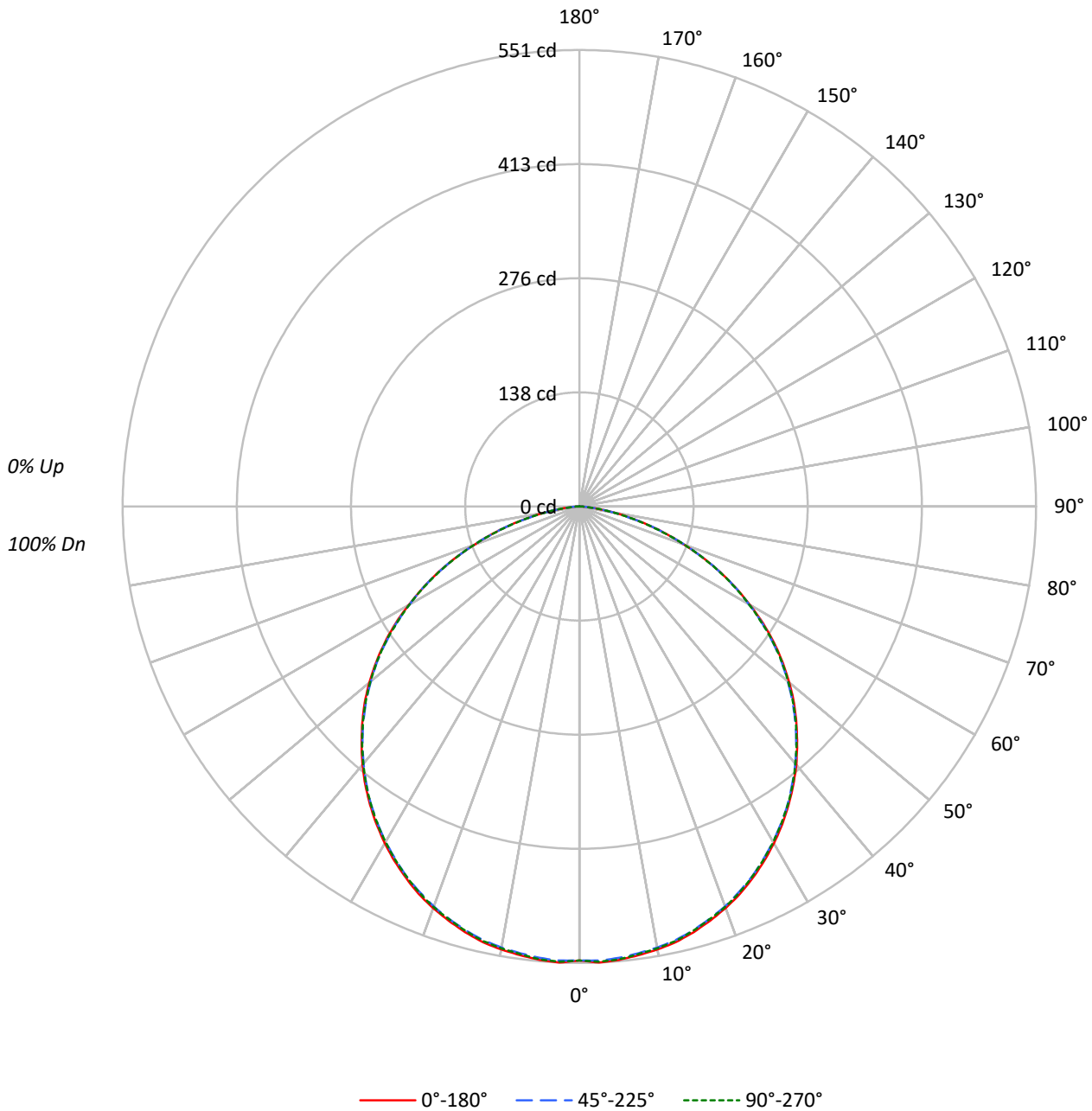
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1532.6 lumens
Efficiency: N/A
Efficacy: 101.5 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°	1475	1475	1475
5°	1484	1478	1482
10°	1484	1477	1480
15°	1482	1476	1478
20°	1477	1471	1473
25°	1469	1464	1464
30°	1459	1453	1454
35°	1445	1440	1441
40°	1430	1423	1424
45°	1409	1403	1405
50°	1384	1374	1377
55°	1345	1334	1339
60°	1279	1273	1273
65°	1194	1192	1188
70°	1057	1063	1060
75°	890	884	876
80°	640	629	625
85°	333	333	324

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1409 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	3.4
10°-20°	149.2	9.7
20°-30°	226.8	14.8
30°-40°	274.1	17.9
40°-50°	284.5	18.6
50°-60°	254.4	16.6
60°-70°	184.9	12.1
70°-80°	91.0	5.9
80°-90°	15.8	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°	427.9	27.9
0°-40°	702.0	45.8
0°-60°	1240.9	81.0
0°-90°	1532.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1532.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	548	548	548	548	548	
5°	549	543	547	545	549	52
15°	532	526	530	528	530	150
25°	495	490	493	492	493	228
35°	440	437	438	439	439	275
45°	370	369	369	369	369	286
55°	287	285	284	285	285	256
65°	188	188	187	187	186	185
75°	86	86	85	85	84	91
85°	11	11	11	11	10	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	548.0	548.0	548.0	548.0	548.0
2.5°	551.1	544.6	548.7	546.3	550.1
5°	549.4	543.0	547.0	545.0	548.7
7.5°	546.3	539.9	544.0	541.9	545.0
10°	543.0	536.2	540.6	538.6	541.6
12.5°	538.6	532.1	536.2	534.5	537.2
15°	532.1	526.0	529.8	528.4	530.4
17.5°	524.3	518.2	522.0	521.0	522.6
20°	515.9	510.1	513.8	512.8	514.5
22.5°	506.4	500.3	503.7	503.0	504.4
25°	494.9	489.5	492.9	491.8	493.2
27.5°	482.7	477.6	480.3	480.3	481.0
30°	469.5	464.8	467.5	467.5	467.8
32.5°	455.3	451.6	453.3	453.6	453.6
35°	440.0	437.0	438.4	438.7	438.7
37.5°	424.1	421.1	422.1	422.8	422.8
40°	407.2	404.5	405.2	405.9	405.5
42.5°	388.9	386.9	387.2	387.9	387.9
45°	370.3	368.6	368.6	369.3	369.3
47.5°	351.4	349.7	349.0	349.7	349.7
50°	330.7	329.0	328.3	329.0	329.0
52.5°	309.1	307.4	307.4	307.4	307.7
55°	286.7	285.0	284.3	285.0	285.4
57.5°	263.0	262.3	261.3	261.7	260.6
60°	237.6	237.6	236.6	237.3	236.6
62.5°	212.9	213.6	212.6	212.6	211.9
65°	187.5	188.2	187.2	187.2	186.5
67.5°	161.5	162.5	161.1	161.1	160.4
70°	134.4	136.4	135.1	135.4	134.7
72.5°	110.0	111.0	109.7	109.7	109.0
75°	85.6	86.3	85.0	85.3	84.3
77.5°	61.6	62.6	61.3	61.6	61.3
80°	41.3	41.6	40.6	41.0	40.3
82.5°	24.0	24.4	24.0	23.7	23.4
85°	10.8	11.2	10.8	10.8	10.5
87.5°	2.7	2.7	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)