

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: P973653

Luminaire Tested: FLR2-22-20-L940-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973653
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-L940-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

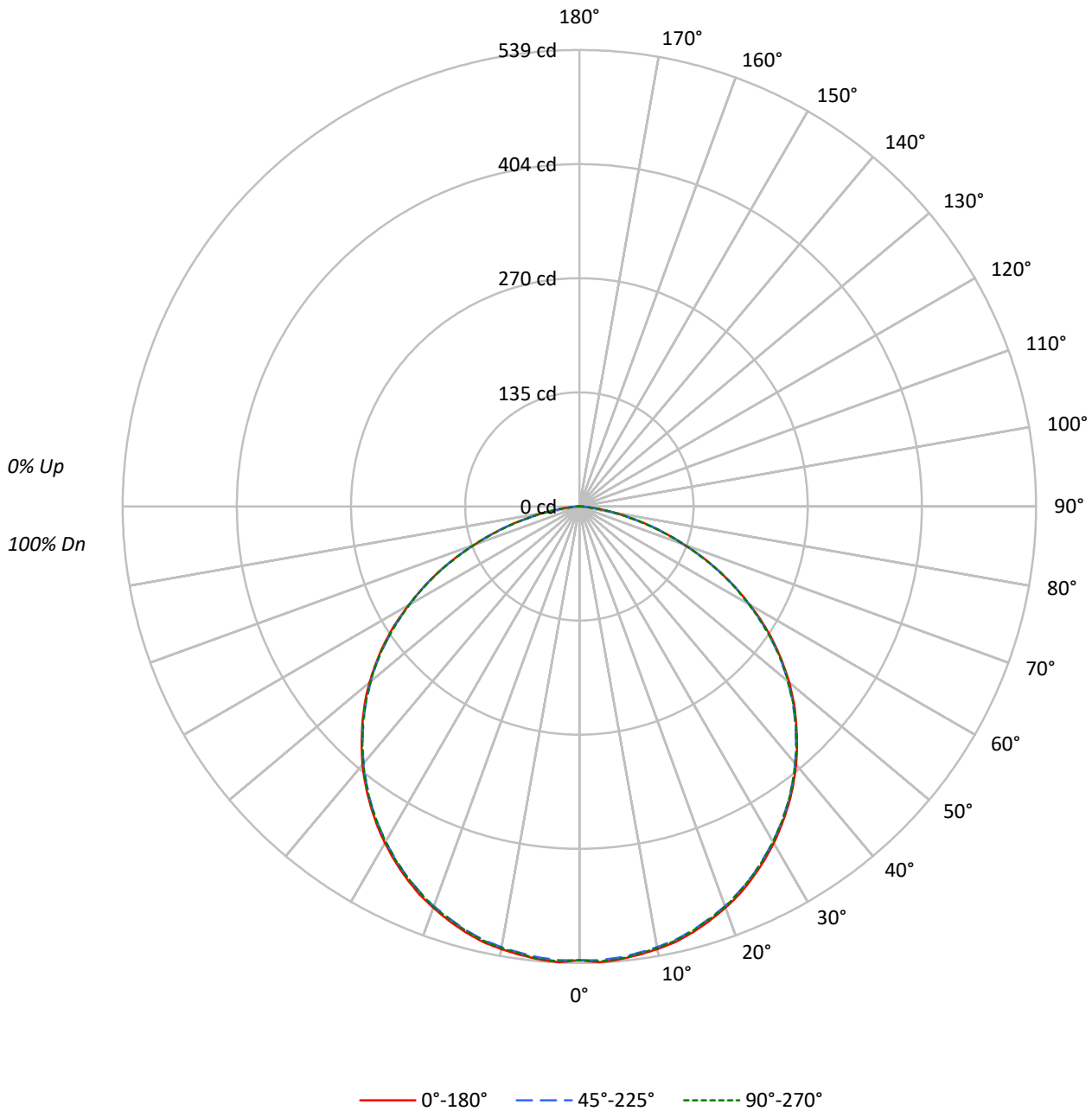
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1498.1 lumens
Efficiency: N/A
Efficacy: 99.2 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				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°	1442	1442	1442
5°	1451	1444	1449
10°	1450	1444	1447
15°	1449	1443	1444
20°	1444	1438	1440
25°	1436	1431	1431
30°	1426	1420	1421
35°	1413	1408	1409
40°	1398	1391	1392
45°	1378	1371	1374
50°	1353	1344	1346
55°	1315	1304	1308
60°	1250	1245	1245
65°	1167	1165	1161
70°	1034	1039	1036
75°	870	864	857
80°	626	615	611
85°	327	327	318

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1378 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.7	3.4
10°-20°	145.9	9.7
20°-30°	221.7	14.8
30°-40°	268.0	17.9
40°-50°	278.1	18.6
50°-60°	248.7	16.6
60°-70°	180.8	12.1
70°-80°	88.9	5.9
80°-90°	15.4	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°	418.3	27.9
0°-40°	686.3	45.8
0°-60°	1213.0	81.0
0°-90°	1498.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1498.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	536	536	536	536	536	
5°	537	531	535	533	536	51
15°	520	514	518	516	518	147
25°	484	478	482	481	482	223
35°	430	427	428	429	429	269
45°	362	360	360	361	361	279
55°	280	279	278	279	279	250
65°	183	184	183	183	182	181
75°	84	84	83	83	82	89
85°	11	11	11	11	10	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	535.7	535.7	535.7	535.7	535.7
2.5°	538.7	532.4	536.4	534.1	537.7
5°	537.0	530.8	534.7	532.7	536.4
7.5°	534.1	527.8	531.7	529.8	532.7
10°	530.8	524.1	528.4	526.5	529.4
12.5°	526.5	520.2	524.1	522.5	525.1
15°	520.2	514.2	517.8	516.5	518.5
17.5°	512.6	506.6	510.2	509.2	510.9
20°	504.3	498.7	502.3	501.3	503.0
22.5°	495.0	489.1	492.4	491.7	493.0
25°	483.8	478.5	481.8	480.8	482.1
27.5°	471.9	466.9	469.5	469.5	470.2
30°	458.9	454.3	457.0	457.0	457.3
32.5°	445.1	441.4	443.1	443.4	443.4
35°	430.2	427.2	428.5	428.8	428.8
37.5°	414.6	411.6	412.6	413.3	413.3
40°	398.1	395.4	396.1	396.7	396.4
42.5°	380.2	378.2	378.5	379.2	379.2
45°	362.0	360.3	360.3	361.0	361.0
47.5°	343.5	341.8	341.2	341.8	341.8
50°	323.3	321.6	321.0	321.6	321.6
52.5°	302.1	300.5	300.5	300.5	300.8
55°	280.3	278.6	278.0	278.6	278.9
57.5°	257.1	256.4	255.4	255.8	254.8
60°	232.3	232.3	231.3	232.0	231.3
62.5°	208.1	208.8	207.8	207.8	207.1
65°	183.3	184.0	183.0	183.0	182.3
67.5°	157.8	158.8	157.5	157.5	156.8
70°	131.4	133.3	132.0	132.4	131.7
72.5°	107.5	108.5	107.2	107.2	106.5
75°	83.7	84.4	83.1	83.4	82.4
77.5°	60.2	61.2	59.9	60.2	59.9
80°	40.4	40.7	39.7	40.0	39.4
82.5°	23.5	23.8	23.5	23.2	22.8
85°	10.6	10.9	10.6	10.6	10.3
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)