

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: P973847

Luminaire Tested: FLR2-22-20HE-L935-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973847
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-L935-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

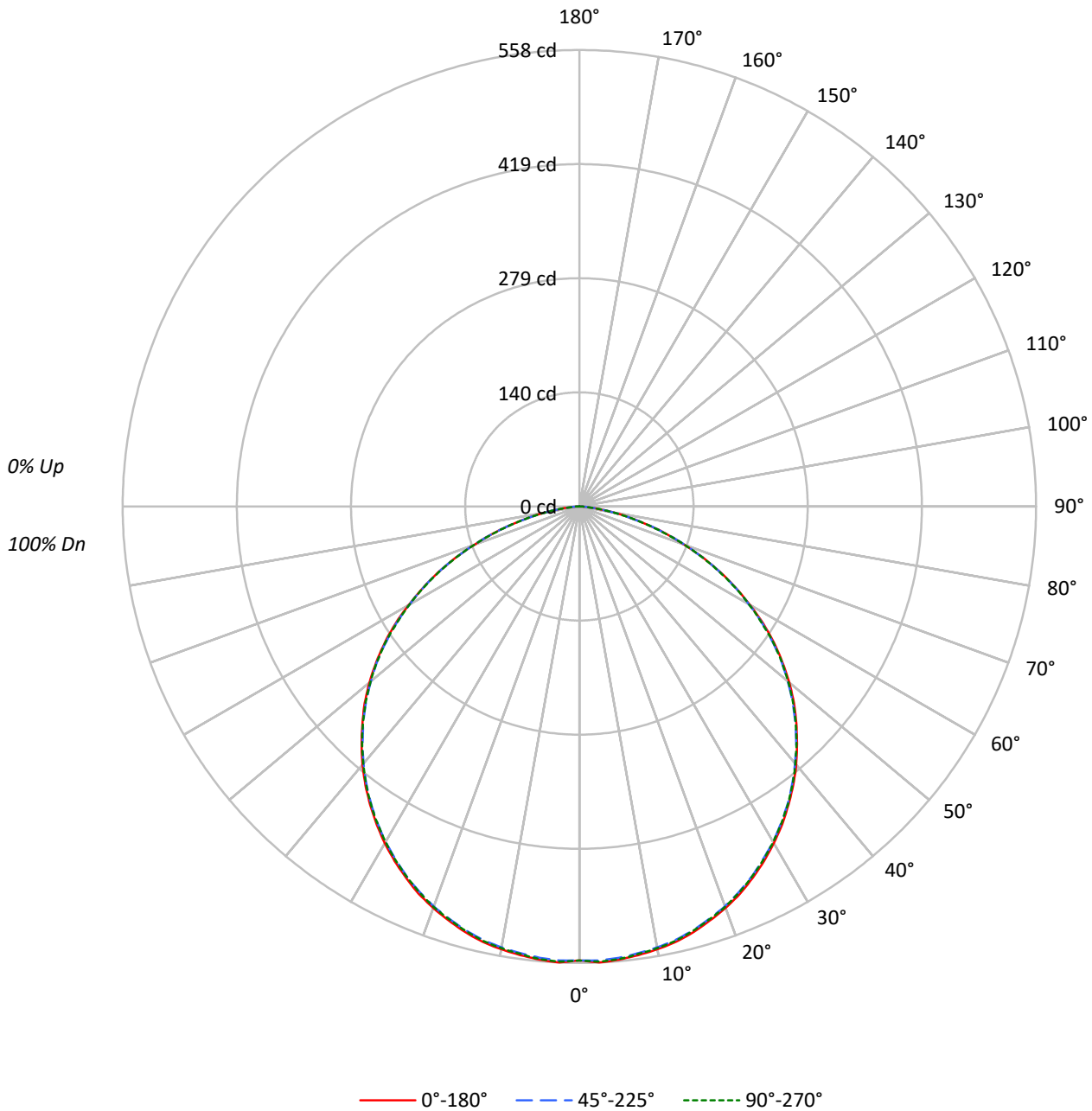
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1551.7 lumens
Efficiency: N/A
Efficacy: 104.8 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				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°	1493	1493	1493
5°	1502	1496	1501
10°	1502	1495	1498
15°	1501	1494	1496
20°	1496	1490	1492
25°	1488	1482	1483
30°	1477	1471	1472
35°	1464	1458	1459
40°	1448	1441	1442
45°	1427	1420	1423
50°	1402	1392	1394
55°	1362	1351	1355
60°	1295	1290	1290
65°	1209	1207	1202
70°	1071	1076	1073
75°	901	894	887
80°	648	637	632
85°	340	340	327

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1427 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.5	3.4
10°-20°	151.1	9.7
20°-30°	229.6	14.8
30°-40°	277.5	17.9
40°-50°	288.1	18.6
50°-60°	257.5	16.6
60°-70°	187.2	12.1
70°-80°	92.1	5.9
80°-90°	16.0	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°	433.3	27.9
0°-40°	710.8	45.8
0°-60°	1256.4	81.0
0°-90°	1551.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1551.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	555	555	555	555	555	
5°	556	550	554	552	556	53
15°	539	533	536	535	537	152
25°	501	496	499	498	499	231
35°	446	442	444	444	444	279
45°	375	373	373	374	374	289
55°	290	289	288	289	289	259
65°	190	191	190	190	189	187
75°	87	87	86	86	85	92
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°	554.9	554.9	554.9	554.9	554.9
2.5°	558.0	551.4	555.6	553.2	556.9
5°	556.2	549.7	553.8	551.8	555.6
7.5°	553.2	546.7	550.8	548.7	551.8
10°	549.7	542.9	547.3	545.3	548.4
12.5°	545.3	538.8	542.9	541.2	543.9
15°	538.8	532.6	536.4	535.0	537.1
17.5°	530.9	524.7	528.5	527.5	529.2
20°	522.3	516.5	520.3	519.2	520.9
22.5°	512.7	506.6	510.0	509.3	510.7
25°	501.1	495.6	499.0	498.0	499.4
27.5°	488.7	483.6	486.3	486.3	487.0
30°	475.4	470.6	473.3	473.3	473.6
32.5°	461.0	457.2	458.9	459.3	459.3
35°	445.5	442.5	443.8	444.2	444.2
37.5°	429.4	426.4	427.4	428.1	428.1
40°	412.3	409.6	410.2	410.9	410.6
42.5°	393.8	391.7	392.1	392.8	392.8
45°	374.9	373.2	373.2	373.9	373.9
47.5°	355.8	354.0	353.4	354.0	354.0
50°	334.8	333.1	332.4	333.1	333.1
52.5°	312.9	311.2	311.2	311.2	311.5
55°	290.3	288.6	287.9	288.6	288.9
57.5°	266.3	265.6	264.6	264.9	263.9
60°	240.6	240.6	239.6	240.3	239.6
62.5°	215.6	216.3	215.2	215.2	214.5
65°	189.9	190.6	189.5	189.5	188.8
67.5°	163.5	164.5	163.1	163.1	162.5
70°	136.1	138.1	136.7	137.1	136.4
72.5°	111.4	112.4	111.0	111.0	110.4
75°	86.7	87.4	86.0	86.4	85.3
77.5°	62.4	63.4	62.0	62.4	62.0
80°	41.8	42.2	41.1	41.5	40.8
82.5°	24.3	24.7	24.3	24.0	23.6
85°	11.0	11.3	11.0	11.0	10.6
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)