

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: P973686

Luminaire Tested: FLR2-22-25-L850-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973686
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: FLR2-22-25-L850-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

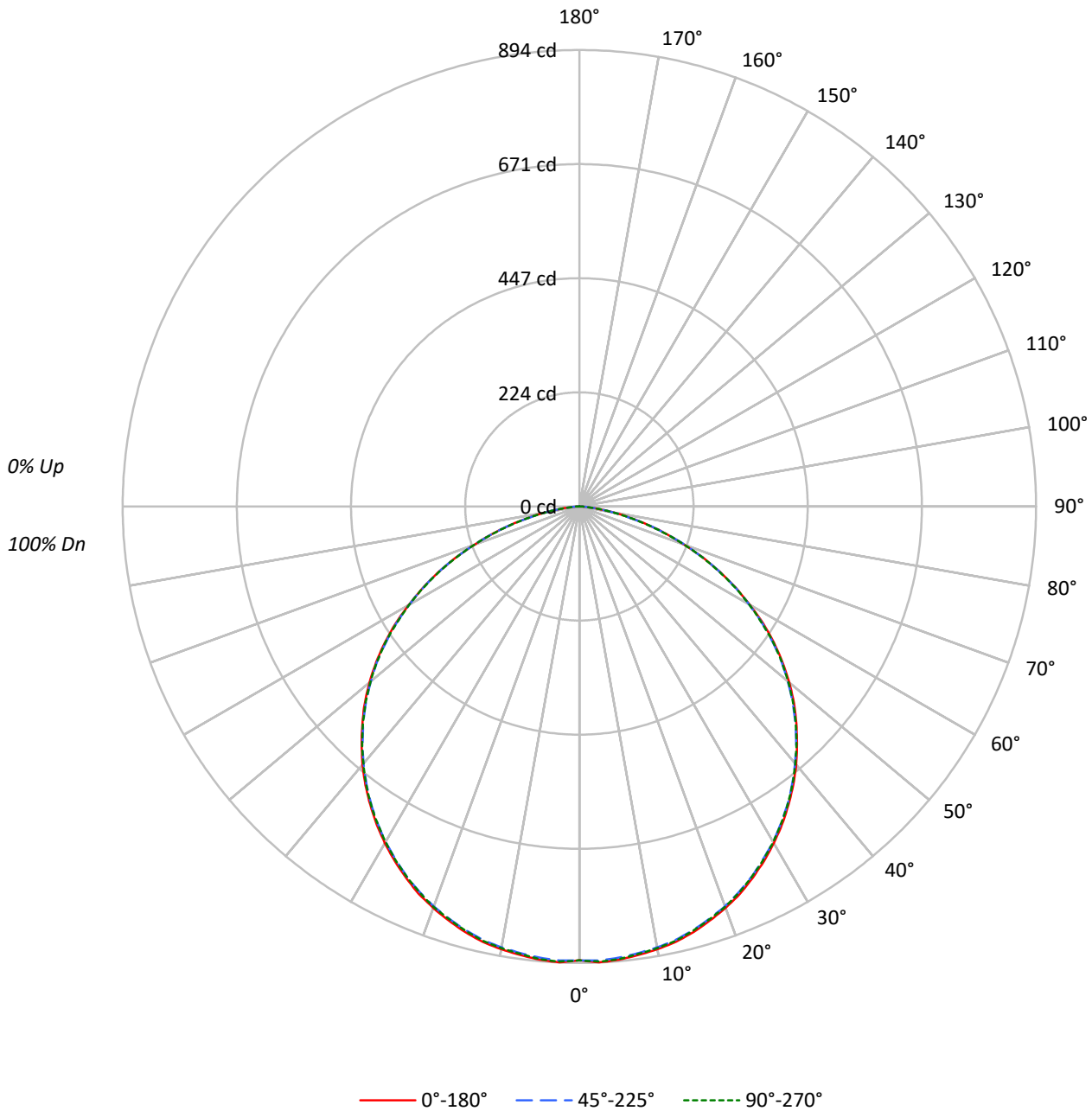
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2485.8 lumens
Efficiency: N/A
Efficacy: 131.5 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): 18.9
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									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°	2392	2392	2392
5°	2407	2397	2404
10°	2407	2396	2400
15°	2405	2394	2397
20°	2396	2387	2390
25°	2383	2374	2375
30°	2366	2356	2358
35°	2345	2336	2338
40°	2320	2309	2310
45°	2286	2275	2280
50°	2246	2230	2234
55°	2182	2164	2171
60°	2074	2066	2066
65°	1937	1933	1926
70°	1715	1724	1719
75°	1444	1433	1421
80°	1038	1021	1012
85°	543	543	525

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2286 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	3.4
10°-20°	242.1	9.7
20°-30°	367.8	14.8
30°-40°	444.6	17.9
40°-50°	461.5	18.6
50°-60°	412.6	16.6
60°-70°	300.0	12.1
70°-80°	147.5	5.9
80°-90°	25.6	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°	694.1	27.9
0°-40°	1138.7	45.8
0°-60°	2012.7	81.0
0°-90°	2485.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2485.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	889	889	889	889	889	
5°	891	881	887	884	890	85
15°	863	853	859	857	860	244
25°	803	794	799	798	800	370
35°	714	709	711	712	712	447
45°	601	598	598	599	599	463
55°	465	462	461	462	463	415
65°	304	305	304	304	302	300
75°	139	140	138	138	137	147
85°	18	18	18	18	17	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	888.9	888.9	888.9	888.9	888.9
2.5°	893.8	883.4	890.0	886.1	892.2
5°	891.1	880.7	887.2	883.9	890.0
7.5°	886.1	875.7	882.3	879.0	883.9
10°	880.7	869.7	876.8	873.5	878.5
12.5°	873.5	863.1	869.7	866.9	871.3
15°	863.1	853.2	859.2	857.0	860.3
17.5°	850.5	840.6	846.6	845.0	847.7
20°	836.7	827.4	833.4	831.8	834.5
22.5°	821.4	811.5	817.0	815.9	818.1
25°	802.7	793.9	799.4	797.8	799.9
27.5°	782.9	774.7	779.1	779.1	780.2
30°	761.5	753.8	758.2	758.2	758.8
32.5°	738.5	732.4	735.2	735.7	735.7
35°	713.7	708.8	711.0	711.6	711.6
37.5°	687.9	683.0	684.6	685.7	685.7
40°	660.5	656.1	657.2	658.3	657.7
42.5°	630.8	627.5	628.1	629.2	629.2
45°	600.6	597.9	597.9	599.0	599.0
47.5°	569.9	567.2	566.1	567.2	567.2
50°	536.4	533.7	532.6	533.7	533.7
52.5°	501.3	498.5	498.5	498.5	499.1
55°	465.0	462.3	461.2	462.3	462.8
57.5°	426.6	425.5	423.9	424.4	422.8
60°	385.4	385.4	383.8	384.9	383.8
62.5°	345.3	346.4	344.8	344.8	343.7
65°	304.2	305.3	303.6	303.6	302.5
67.5°	261.9	263.5	261.3	261.3	260.2
70°	218.0	221.3	219.1	219.6	218.5
72.5°	178.4	180.1	177.9	177.9	176.8
75°	138.9	140.0	137.8	138.4	136.7
77.5°	99.9	101.6	99.4	99.9	99.4
80°	67.0	67.5	65.9	66.4	65.3
82.5°	39.0	39.5	39.0	38.4	37.9
85°	17.6	18.1	17.6	17.6	17.0
87.5°	4.4	4.4	4.4	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)