

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: P973945

Luminaire Tested: FLR2-22-35HE-L940-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973945
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: FLR2-22-35HE-L940-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

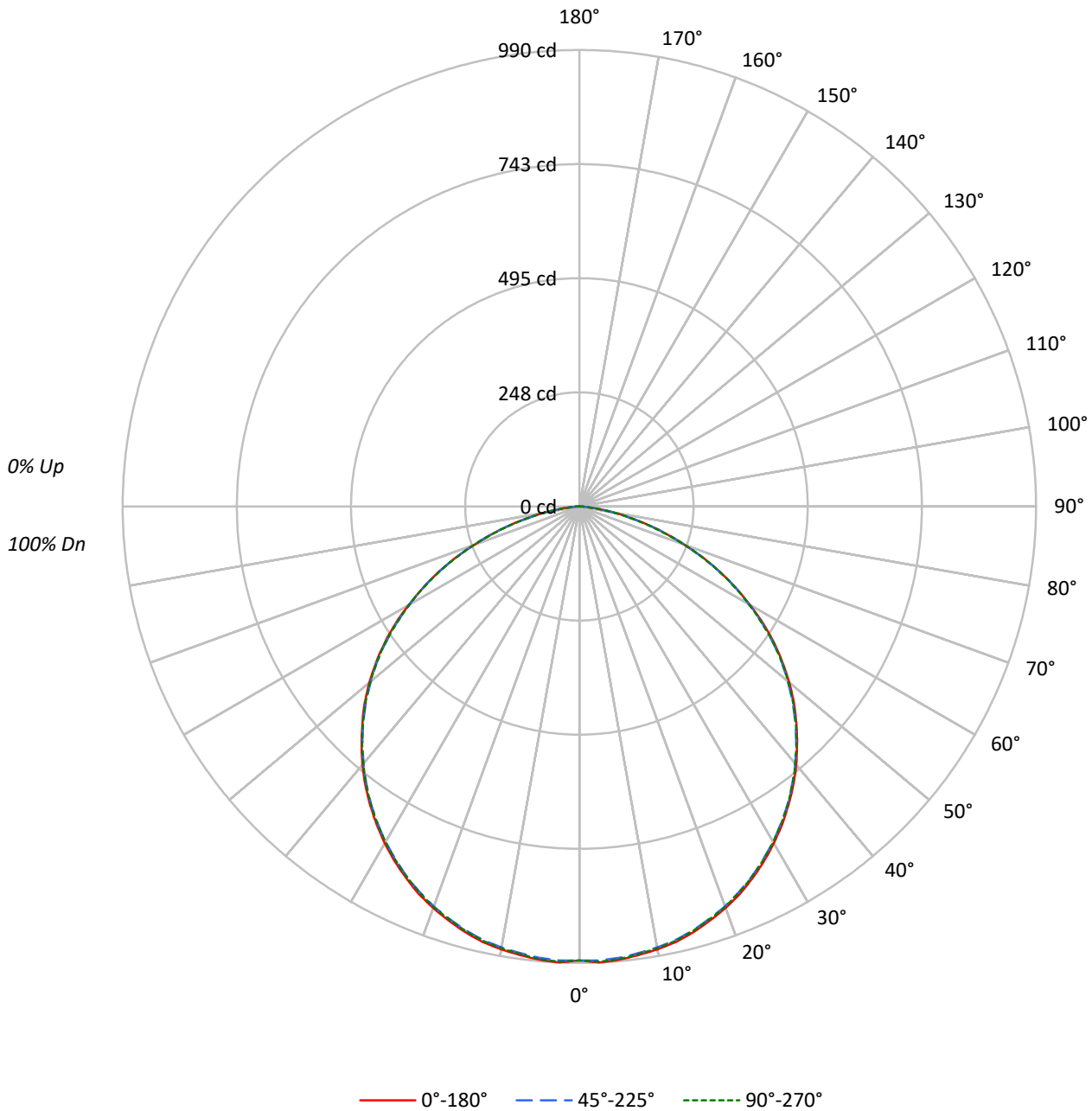
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2753.3 lumens
Efficiency: N/A
Efficacy: 101.2 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): 27.2
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°	2649	2649	2649
5°	2666	2655	2663
10°	2665	2654	2659
15°	2663	2651	2655
20°	2654	2643	2647
25°	2640	2629	2631
30°	2621	2609	2611
35°	2597	2587	2589
40°	2570	2557	2559
45°	2532	2520	2525
50°	2487	2470	2475
55°	2417	2396	2405
60°	2298	2288	2288
65°	2145	2141	2134
70°	1899	1909	1904
75°	1599	1587	1574
80°	1150	1131	1122
85°	602	602	584

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2532 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	3.4
10°-20°	268.1	9.7
20°-30°	407.4	14.8
30°-40°	492.4	17.9
40°-50°	511.1	18.6
50°-60°	457.0	16.6
60°-70°	332.3	12.1
70°-80°	163.4	5.9
80°-90°	28.4	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°	768.7	27.9
0°-40°	1261.2	45.8
0°-60°	2229.3	81.0
0°-90°	2753.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2753.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	984	984	984	984	984	
5°	987	975	983	979	986	94
15°	956	945	952	949	953	270
25°	889	879	885	884	886	410
35°	790	785	788	788	788	495
45°	665	662	662	663	663	513
55°	515	512	511	512	513	459
65°	337	338	336	336	335	332
75°	154	155	153	153	151	163
85°	20	20	20	20	19	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	984.5	984.5	984.5	984.5	984.5
2.5°	990.0	978.4	985.7	981.5	988.2
5°	986.9	975.4	982.7	979.0	985.7
7.5°	981.5	969.9	977.2	973.6	979.0
10°	975.4	963.2	971.1	967.5	973.0
12.5°	967.5	955.9	963.2	960.2	965.1
15°	955.9	945.0	951.7	949.2	952.9
17.5°	941.9	931.0	937.7	935.9	938.9
20°	926.7	916.4	923.1	921.3	924.3
22.5°	909.7	898.8	904.9	903.6	906.1
25°	889.0	879.3	885.4	883.6	886.0
27.5°	867.2	858.0	862.9	862.9	864.1
30°	843.4	834.9	839.8	839.8	840.4
32.5°	817.9	811.2	814.2	814.9	814.9
35°	790.5	785.1	787.5	788.1	788.1
37.5°	762.0	756.5	758.3	759.5	759.5
40°	731.5	726.7	727.9	729.1	728.5
42.5°	698.7	695.1	695.7	696.9	696.9
45°	665.3	662.2	662.2	663.4	663.4
47.5°	631.2	628.2	627.0	628.2	628.2
50°	594.1	591.1	589.9	591.1	591.1
52.5°	555.2	552.2	552.2	552.2	552.8
55°	515.1	512.0	510.8	512.0	512.6
57.5°	472.5	471.3	469.5	470.1	468.2
60°	426.9	426.9	425.1	426.3	425.1
62.5°	382.5	383.7	381.9	381.9	380.7
65°	336.9	338.1	336.3	336.3	335.1
67.5°	290.1	291.9	289.5	289.5	288.2
70°	241.4	245.1	242.6	243.2	242.0
72.5°	197.6	199.5	197.0	197.0	195.8
75°	153.8	155.1	152.6	153.2	151.4
77.5°	110.7	112.5	110.1	110.7	110.1
80°	74.2	74.8	73.0	73.6	72.4
82.5°	43.2	43.8	43.2	42.6	42.0
85°	19.5	20.1	19.5	19.5	18.9
87.5°	4.9	4.9	4.9	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)