

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: P973963

Luminaire Tested: FLR2-22-35HE-L940-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973963
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-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

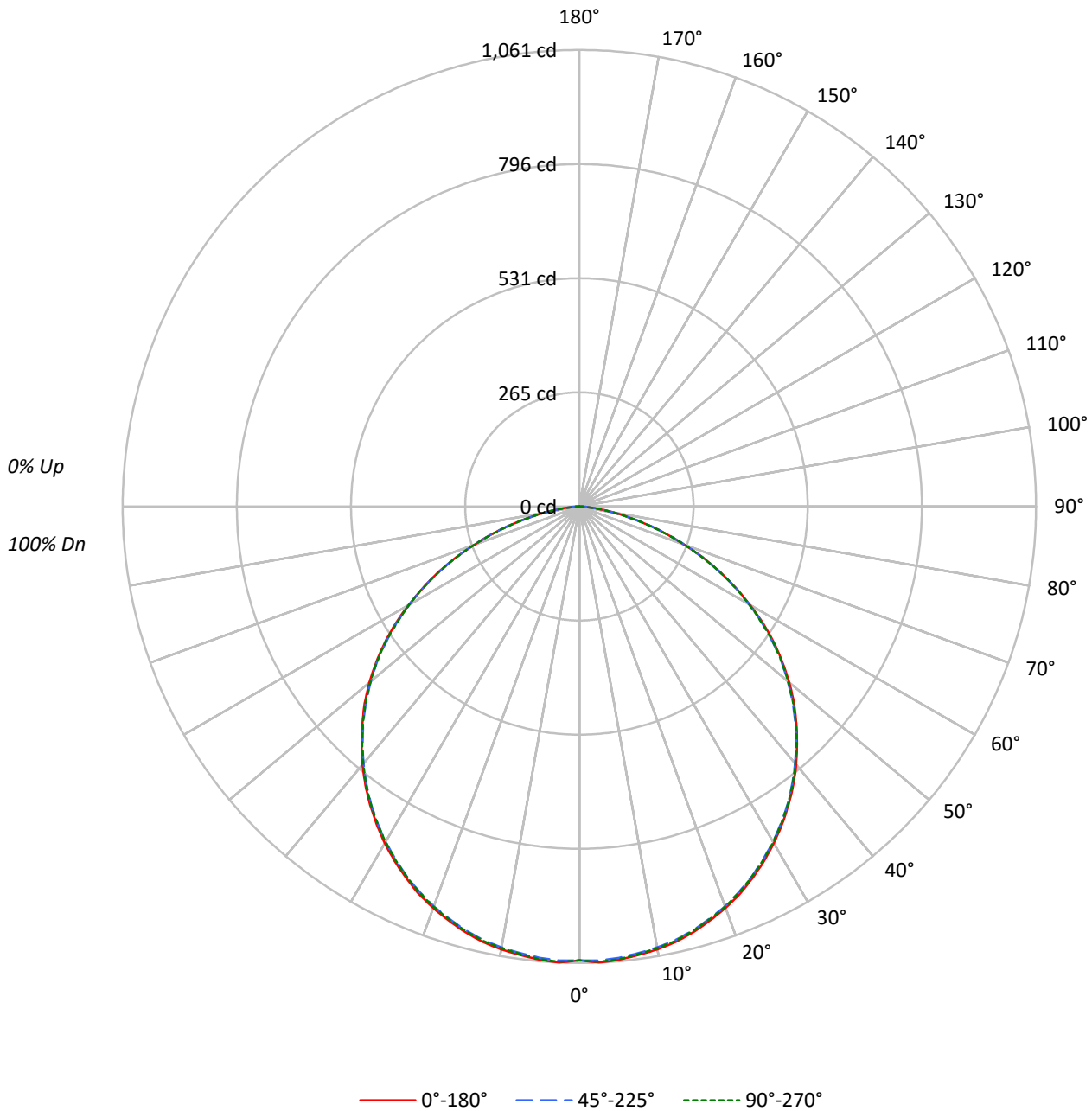
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2950.5 lumens
Efficiency: N/A
Efficacy: 108.5 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): 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										
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°	2839	2839	2839
5°	2857	2845	2853
10°	2856	2844	2849
15°	2854	2841	2845
20°	2844	2833	2836
25°	2829	2817	2819
30°	2809	2796	2798
35°	2783	2772	2775
40°	2754	2740	2742
45°	2713	2701	2706
50°	2665	2646	2652
55°	2590	2568	2578
60°	2462	2451	2451
65°	2299	2295	2287
70°	2035	2046	2041
75°	1714	1701	1687
80°	1232	1212	1201
85°	645	645	624

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2713 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	3.4
10°-20°	287.3	9.7
20°-30°	436.6	14.8
30°-40°	527.7	17.9
40°-50°	547.8	18.6
50°-60°	489.7	16.6
60°-70°	356.0	12.1
70°-80°	175.1	5.9
80°-90°	30.4	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°	823.8	27.9
0°-40°	1351.5	45.8
0°-60°	2389.0	81.0
0°-90°	2950.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2950.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1055	1055	1055	1055	1055	
5°	1058	1045	1053	1049	1056	101
15°	1024	1013	1020	1017	1021	289
25°	953	942	949	947	950	439
35°	847	841	844	845	845	530
45°	713	710	710	711	711	550
55°	552	549	547	549	549	492
65°	361	362	360	360	359	356
75°	165	166	164	164	162	175
85°	21	22	21	21	20	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1055.0	1055.0	1055.0	1055.0	1055.0
2.5°	1060.9	1048.5	1056.3	1051.8	1059.0
5°	1057.6	1045.3	1053.1	1049.2	1056.3
7.5°	1051.8	1039.4	1047.2	1043.3	1049.2
10°	1045.3	1032.2	1040.7	1036.8	1042.7
12.5°	1036.8	1024.4	1032.2	1029.0	1034.2
15°	1024.4	1012.7	1019.9	1017.2	1021.2
17.5°	1009.4	997.7	1004.9	1002.9	1006.2
20°	993.1	982.1	989.2	987.3	990.5
22.5°	974.9	963.2	969.7	968.4	971.0
25°	952.7	942.3	948.8	946.9	949.5
27.5°	929.3	919.5	924.7	924.7	926.0
30°	903.9	894.7	899.9	899.9	900.6
32.5°	876.5	869.3	872.6	873.2	873.2
35°	847.2	841.3	843.9	844.6	844.6
37.5°	816.5	810.7	812.6	813.9	813.9
40°	783.9	778.7	780.0	781.3	780.7
42.5°	748.8	744.8	745.5	746.8	746.8
45°	712.9	709.7	709.7	711.0	711.0
47.5°	676.4	673.2	671.9	673.2	673.2
50°	636.7	633.4	632.1	633.4	633.4
52.5°	595.0	591.7	591.7	591.7	592.4
55°	552.0	548.7	547.4	548.7	549.4
57.5°	506.3	505.0	503.1	503.7	501.8
60°	457.5	457.5	455.5	456.8	455.5
62.5°	409.9	411.2	409.2	409.2	407.9
65°	361.0	362.3	360.4	360.4	359.1
67.5°	310.8	312.8	310.2	310.2	308.9
70°	258.7	262.6	260.0	260.7	259.4
72.5°	211.8	213.7	211.1	211.1	209.8
75°	164.9	166.2	163.6	164.2	162.3
77.5°	118.6	120.6	118.0	118.6	118.0
80°	79.5	80.2	78.2	78.9	77.5
82.5°	46.3	46.9	46.3	45.6	45.0
85°	20.9	21.5	20.9	20.9	20.2
87.5°	5.2	5.2	5.2	5.2	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)