

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: P973795

Luminaire Tested: FLR2-22-35HE-L930-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973795
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-L930-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

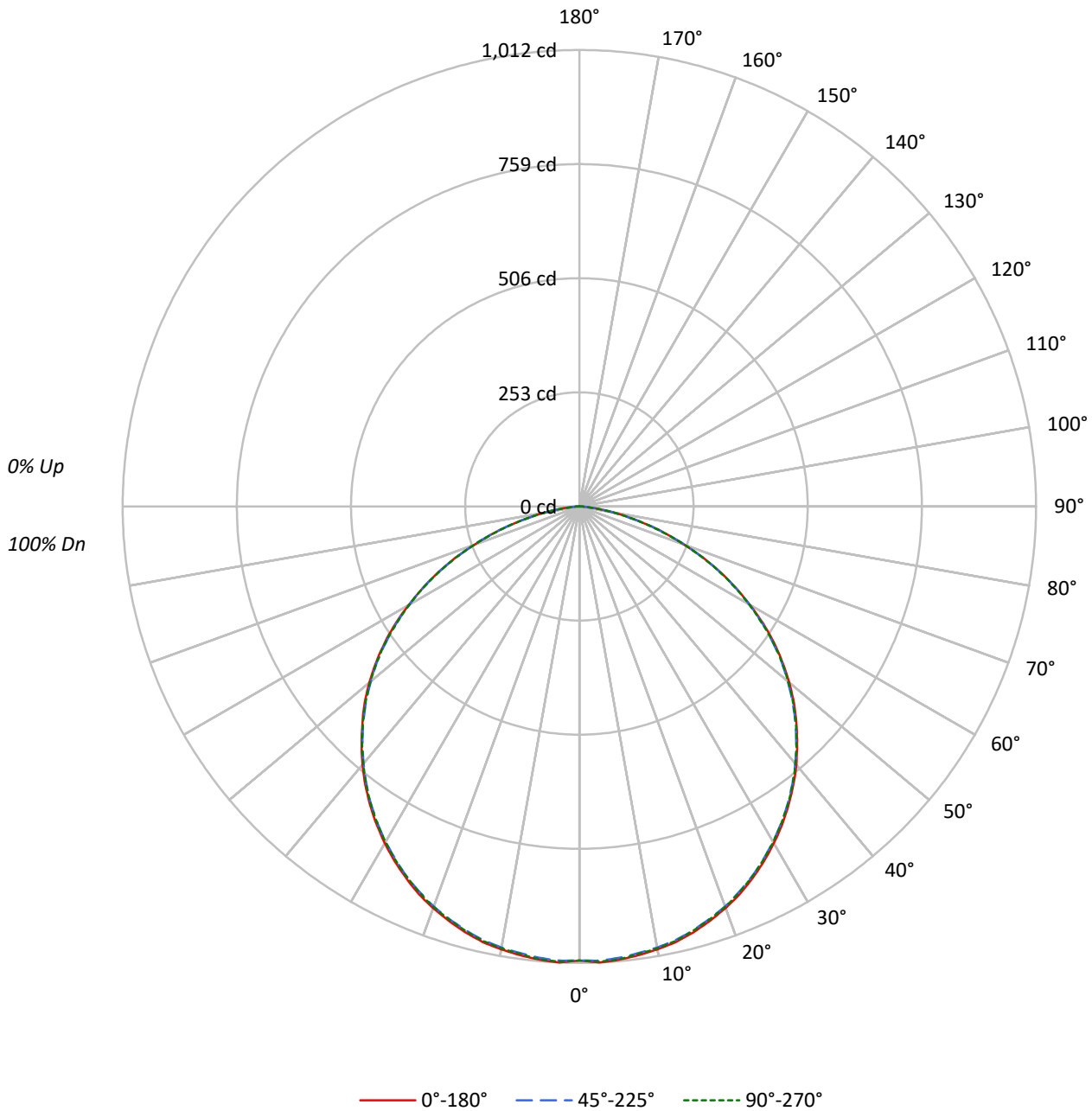
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2814.8 lumens
Efficiency: N/A
Efficacy: 103.5 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				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°	2708	2708	2708
5°	2726	2714	2722
10°	2725	2713	2718
15°	2723	2711	2714
20°	2713	2702	2706
25°	2699	2688	2689
30°	2679	2668	2670
35°	2655	2645	2647
40°	2627	2614	2616
45°	2588	2576	2581
50°	2543	2524	2530
55°	2471	2450	2459
60°	2349	2339	2339
65°	2193	2189	2181
70°	1942	1952	1947
75°	1635	1622	1609
80°	1175	1156	1147
85°	614	614	596

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2588 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.3	3.4
10°-20°	274.1	9.7
20°-30°	416.5	14.8
30°-40°	503.5	17.9
40°-50°	522.6	18.6
50°-60°	467.2	16.6
60°-70°	339.7	12.1
70°-80°	167.0	5.9
80°-90°	29.0	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°	785.9	27.9
0°-40°	1289.4	45.8
0°-60°	2279.1	81.0
0°-90°	2814.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2814.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	1009	997	1005	1001	1008	96
15°	977	966	973	970	974	276
25°	909	899	905	903	906	419
35°	808	803	805	806	806	506
45°	680	677	677	678	678	525
55°	527	524	522	524	524	469
65°	344	346	344	344	343	340
75°	157	158	156	157	155	167
85°	20	20	20	20	19	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1006.5	1006.5	1006.5	1006.5	1006.5
2.5°	1012.1	1000.3	1007.8	1003.4	1010.3
5°	1009.0	997.2	1004.7	1000.9	1007.8
7.5°	1003.4	991.6	999.1	995.3	1000.9
10°	997.2	984.8	992.9	989.1	994.7
12.5°	989.1	977.3	984.8	981.7	986.6
15°	977.3	966.1	973.0	970.5	974.2
17.5°	963.0	951.8	958.7	956.8	959.9
20°	947.5	936.9	943.7	941.9	945.0
22.5°	930.1	918.9	925.1	923.8	926.3
25°	908.9	899.0	905.2	903.3	905.8
27.5°	886.5	877.2	882.2	882.2	883.4
30°	862.3	853.6	858.6	858.6	859.2
32.5°	836.2	829.3	832.5	833.1	833.1
35°	808.2	802.6	805.1	805.7	805.7
37.5°	779.0	773.4	775.3	776.5	776.5
40°	747.9	742.9	744.2	745.4	744.8
42.5°	714.3	710.6	711.2	712.5	712.5
45°	680.1	677.0	677.0	678.3	678.3
47.5°	645.3	642.2	641.0	642.2	642.2
50°	607.4	604.3	603.0	604.3	604.3
52.5°	567.6	564.5	564.5	564.5	565.1
55°	526.6	523.5	522.2	523.5	524.1
57.5°	483.1	481.8	480.0	480.6	478.7
60°	436.4	436.4	434.6	435.8	434.6
62.5°	391.0	392.3	390.4	390.4	389.2
65°	344.4	345.7	343.8	343.8	342.6
67.5°	296.6	298.4	295.9	295.9	294.7
70°	246.8	250.5	248.1	248.7	247.4
72.5°	202.1	203.9	201.4	201.4	200.2
75°	157.3	158.5	156.0	156.7	154.8
77.5°	113.1	115.0	112.5	113.1	112.5
80°	75.8	76.5	74.6	75.2	74.0
82.5°	44.1	44.8	44.1	43.5	42.9
85°	19.9	20.5	19.9	19.9	19.3
87.5°	5.0	5.0	5.0	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)