

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: P974605

Luminaire Tested: FLR2-24-30HE-L930-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-30HE-L930-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

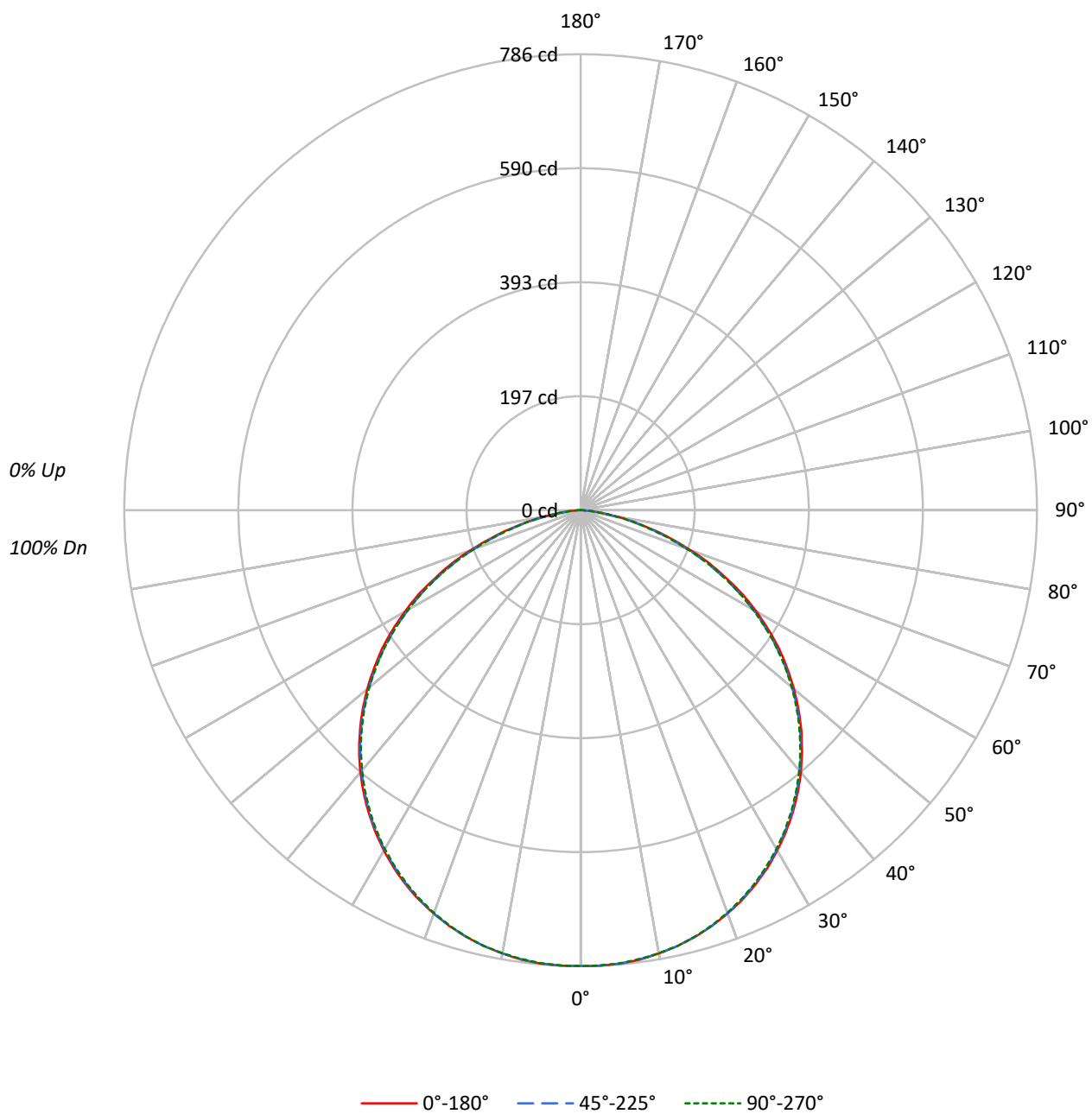
Lumens per Lamp: N/A
Luminaire Lumens: 2221.4 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 21.9
Input Voltage (V):
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	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	39	33	29	27		
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1058	1058	1058
5°	1060	1060	1059
10°	1060	1060	1060
15°	1061	1060	1060
20°	1060	1059	1058
25°	1058	1055	1054
30°	1053	1050	1048
35°	1046	1043	1039
40°	1037	1030	1029
45°	1023	1017	1014
50°	1004	996	993
55°	980	966	965
60°	939	923	923
65°	879	858	861
70°	791	767	764
75°	664	638	635
80°	485	461	480
85°	275	253	256

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1023 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	3.4
10°-20°	214.9	9.7
20°-30°	327.7	14.8
30°-40°	397.0	17.9
40°-50°	412.4	18.6
50°-60°	368.9	16.6
60°-70°	268.9	12.1
70°-80°	133.2	6.0
80°-90°	23.8	1.1
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°	617.2	27.8
0°-40°	1014.2	45.7
0°-60°	1795.5	80.8
0°-90°	2221.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2221.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	786	786	786	786	786	
5°	785	785	785	785	784	75
15°	761	761	761	762	761	215
25°	712	712	711	711	710	328
35°	637	636	635	634	633	398
45°	538	537	535	534	533	414
55°	418	415	412	412	412	372
65°	276	274	270	271	270	274
75°	128	126	123	125	122	136
85°	18	16	16	17	17	25
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	786.0	786.0	786.0	786.0	786.0
2.5°	786.0	785.7	785.7	786.0	785.4
5°	784.6	784.8	784.6	784.6	784.0
7.5°	781.5	781.2	780.9	781.2	780.3
10°	776.1	776.1	775.8	776.1	775.5
12.5°	769.6	769.6	769.6	769.9	769.6
15°	761.4	761.1	761.1	761.7	761.1
17.5°	751.8	751.6	751.6	751.3	750.7
20°	740.0	740.0	739.7	739.4	738.6
22.5°	727.3	727.0	726.2	726.2	725.0
25°	712.4	711.5	710.9	710.7	709.8
27.5°	696.0	694.9	694.0	693.5	692.6
30°	677.7	676.5	675.7	674.9	674.3
32.5°	657.9	657.4	656.0	655.7	654.5
35°	636.8	635.9	635.1	634.0	632.8
37.5°	614.2	613.4	611.4	610.8	610.0
40°	590.2	589.1	586.6	586.6	585.7
42.5°	564.6	563.5	561.8	560.6	560.1
45°	537.8	536.7	534.7	533.6	533.0
47.5°	509.3	508.5	506.2	505.4	504.5
50°	479.7	478.6	476.0	475.5	474.6
52.5°	448.7	448.1	444.7	444.4	443.6
55°	417.9	414.8	412.0	412.0	411.5
57.5°	384.1	381.8	378.2	378.2	377.6
60°	349.1	347.2	342.9	343.5	342.9
62.5°	315.0	310.8	306.8	308.5	307.1
65°	276.1	273.8	269.6	270.7	270.4
67.5°	240.6	236.3	232.4	234.6	233.5
70°	201.1	198.8	194.9	197.1	194.3
72.5°	163.8	161.9	157.9	160.5	157.6
75°	127.8	125.8	122.7	124.9	122.1
77.5°	93.6	92.2	89.4	91.7	92.2
80°	62.6	60.9	59.5	61.5	62.0
82.5°	36.7	35.5	35.0	35.3	36.7
85°	17.8	16.4	16.4	16.6	16.6
87.5°	4.8	4.2	4.8	5.1	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)