

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: P974626

Luminaire Tested: FLR2-24-20HE-L930-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974626
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: FLR2-24-20HE-L930-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

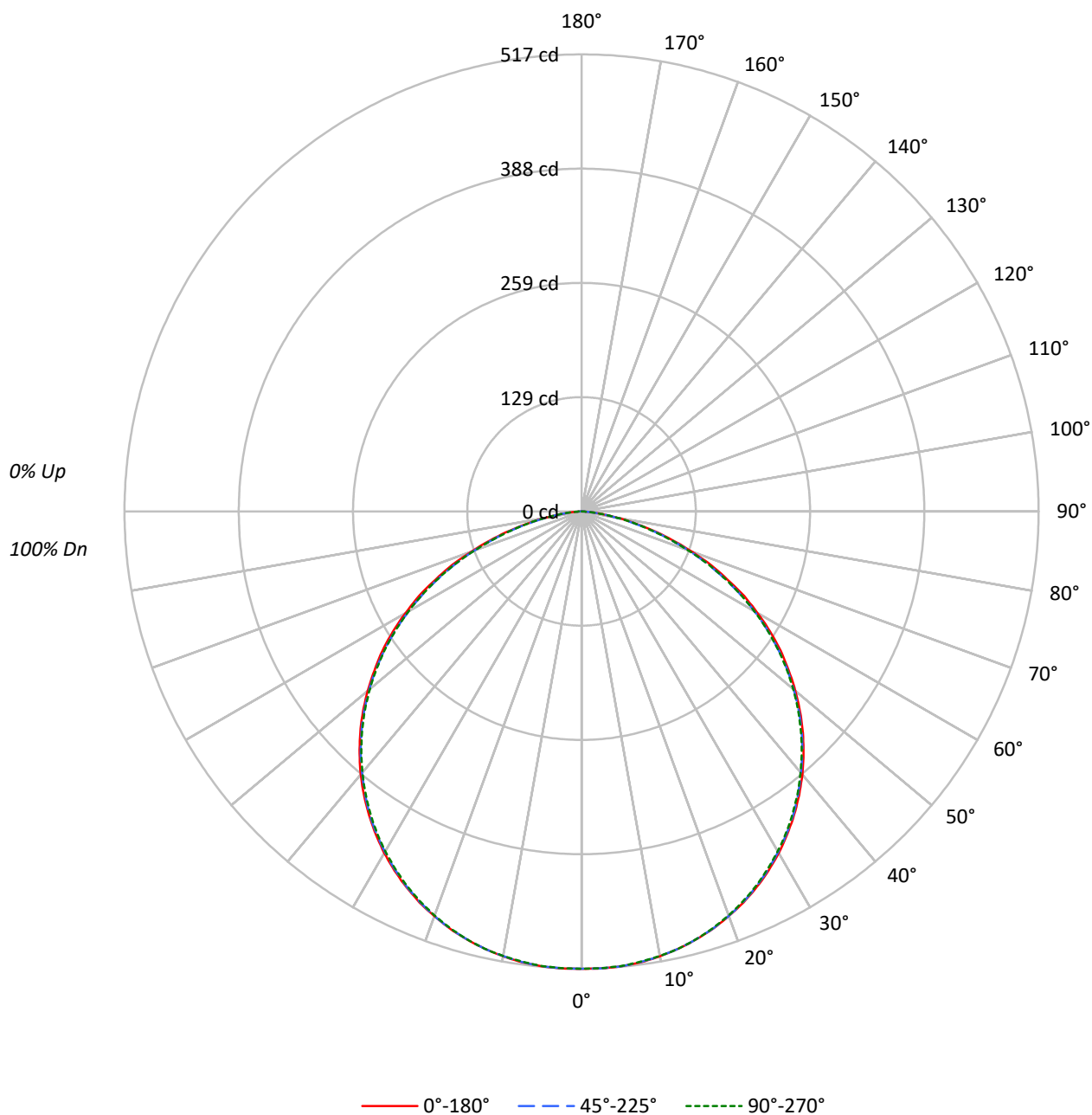
Lumens per Lamp: N/A
Luminaire Lumens: 1462.5 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 14.9
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		100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		34
8	61	47	39	33	59	47	38	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	39	33	29	27		27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	696	696	696
5°	698	698	697
10°	698	698	698
15°	698	698	698
20°	698	697	696
25°	696	695	694
30°	693	691	690
35°	689	687	684
40°	683	678	677
45°	674	670	668
50°	661	656	654
55°	646	636	635
60°	619	608	608
65°	579	565	567
70°	521	505	503
75°	437	420	418
80°	319	304	316
85°	181	167	170

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 674 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	3.4
10°-20°	141.5	9.7
20°-30°	215.7	14.8
30°-40°	261.4	17.9
40°-50°	271.5	18.6
50°-60°	242.9	16.6
60°-70°	177.0	12.1
70°-80°	87.7	6.0
80°-90°	15.7	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°	406.4	27.8
0°-40°	667.7	45.7
0°-60°	1182.1	80.8
0°-90°	1462.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1462.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	517	517	517	517	517	
5°	516	517	516	516	516	49
15°	501	501	501	502	501	142
25°	469	468	468	468	467	216
35°	419	419	418	417	417	262
45°	354	353	352	351	351	273
55°	275	273	271	271	271	245
65°	182	180	178	178	178	180
75°	84	83	81	82	80	90
85°	12	11	11	11	11	16
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	517.4	517.4	517.4	517.4	517.4
2.5°	517.4	517.3	517.3	517.4	517.1
5°	516.5	516.7	516.5	516.5	516.1
7.5°	514.5	514.3	514.1	514.3	513.7
10°	511.0	511.0	510.8	511.0	510.6
12.5°	506.7	506.7	506.7	506.9	506.7
15°	501.3	501.1	501.1	501.5	501.1
17.5°	495.0	494.8	494.8	494.6	494.2
20°	487.2	487.2	487.0	486.8	486.3
22.5°	478.8	478.6	478.1	478.1	477.3
25°	469.0	468.4	468.1	467.9	467.3
27.5°	458.2	457.5	456.9	456.6	456.0
30°	446.2	445.4	444.9	444.3	443.9
32.5°	433.2	432.8	431.9	431.7	430.9
35°	419.2	418.7	418.1	417.4	416.6
37.5°	404.4	403.8	402.5	402.2	401.6
40°	388.6	387.9	386.2	386.2	385.6
42.5°	371.7	371.0	369.8	369.1	368.7
45°	354.1	353.3	352.0	351.3	350.9
47.5°	335.3	334.8	333.3	332.7	332.2
50°	315.8	315.1	313.4	313.0	312.5
52.5°	295.4	295.0	292.8	292.6	292.1
55°	275.2	273.1	271.3	271.3	270.9
57.5°	252.9	251.4	249.0	249.0	248.6
60°	229.9	228.6	225.8	226.1	225.8
62.5°	207.4	204.6	202.0	203.1	202.2
65°	181.8	180.3	177.5	178.2	178.1
67.5°	158.4	155.6	153.0	154.5	153.7
70°	132.4	130.9	128.3	129.8	127.9
72.5°	107.9	106.6	104.0	105.6	103.8
75°	84.1	82.8	80.8	82.2	80.4
77.5°	61.6	60.7	58.9	60.3	60.7
80°	41.2	40.1	39.2	40.5	40.8
82.5°	24.1	23.4	23.0	23.2	24.1
85°	11.7	10.8	10.8	11.0	11.0
87.5°	3.2	2.8	3.2	3.3	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)