

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: P974615

Luminaire Tested: FLR2-24-20HE-L930-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974615
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

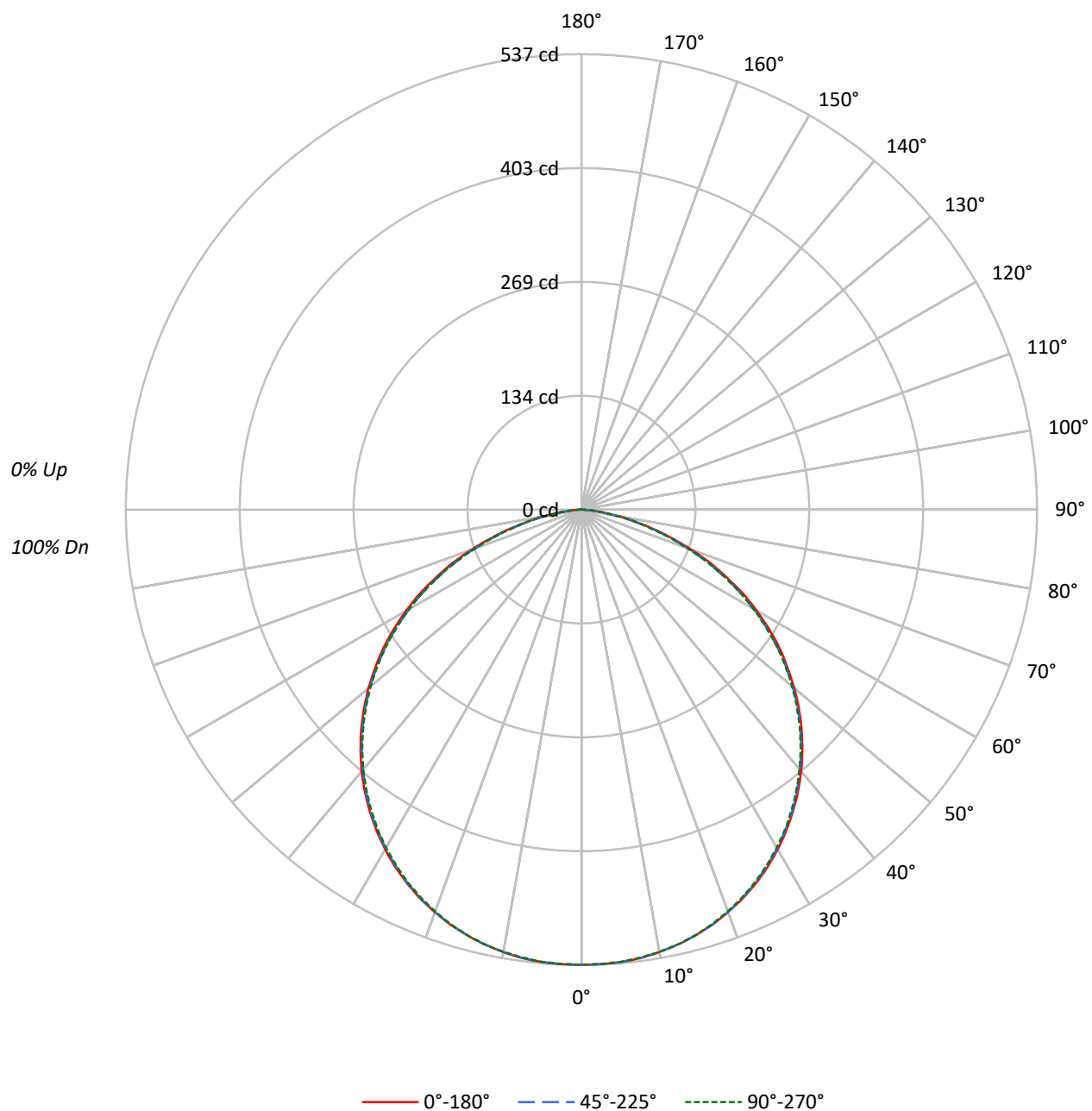
Lumens per Lamp: N/A
Luminaire Lumens: 1516.6 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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		
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°	722	722	722
5°	723	723	723
10°	724	724	723
15°	724	724	724
20°	723	723	722
25°	722	721	719
30°	719	717	715
35°	714	712	710
40°	708	703	702
45°	699	695	692
50°	686	680	678
55°	669	660	659
60°	642	630	630
65°	600	586	588
70°	540	523	522
75°	453	436	434
80°	331	315	329
85°	187	173	176

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 699 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.9	3.4
10°-20°	146.7	9.7
20°-30°	223.7	14.8
30°-40°	271.0	17.9
40°-50°	281.5	18.6
50°-60°	251.9	16.6
60°-70°	183.6	12.1
70°-80°	90.9	6.0
80°-90°	16.3	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°	421.4	27.8
0°-40°	692.4	45.7
0°-60°	1225.8	80.8
0°-90°	1516.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1516.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	537	537	537	537	537	
5°	536	536	536	536	535	51
15°	520	520	520	520	520	147
25°	486	486	485	485	485	224
35°	435	434	434	433	432	272
45°	367	366	365	364	364	283
55°	285	283	281	281	281	254
65°	188	187	184	185	185	187
75°	87	86	84	85	83	93
85°	12	11	11	11	11	17
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	536.6	536.6	536.6	536.6	536.6
2.5°	536.6	536.4	536.4	536.6	536.2
5°	535.6	535.8	535.6	535.6	535.2
7.5°	533.5	533.3	533.1	533.3	532.7
10°	529.8	529.8	529.7	529.8	529.5
12.5°	525.4	525.4	525.4	525.6	525.4
15°	519.8	519.6	519.6	520.0	519.6
17.5°	513.3	513.1	513.1	512.9	512.5
20°	505.2	505.2	505.0	504.8	504.2
22.5°	496.5	496.3	495.8	495.8	495.0
25°	486.3	485.8	485.4	485.2	484.6
27.5°	475.2	474.4	473.8	473.4	472.9
30°	462.7	461.9	461.3	460.7	460.3
32.5°	449.2	448.8	447.8	447.6	446.9
35°	434.7	434.2	433.6	432.8	432.0
37.5°	419.3	418.8	417.4	417.0	416.4
40°	403.0	402.2	400.5	400.5	399.9
42.5°	385.4	384.7	383.5	382.8	382.4
45°	367.2	366.4	365.0	364.3	363.9
47.5°	347.7	347.1	345.6	345.0	344.4
50°	327.5	326.7	325.0	324.6	324.0
52.5°	306.3	305.9	303.6	303.4	302.9
55°	285.3	283.2	281.3	281.3	280.9
57.5°	262.2	260.7	258.2	258.2	257.8
60°	238.4	237.0	234.1	234.5	234.1
62.5°	215.1	212.2	209.5	210.6	209.7
65°	188.5	186.9	184.1	184.8	184.6
67.5°	164.2	161.3	158.6	160.2	159.4
70°	137.3	135.7	133.0	134.6	132.7
72.5°	111.9	110.5	107.8	109.6	107.6
75°	87.2	85.9	83.8	85.3	83.4
77.5°	63.9	63.0	61.0	62.6	63.0
80°	42.7	41.6	40.6	42.0	42.4
82.5°	25.0	24.3	23.9	24.1	25.0
85°	12.1	11.2	11.2	11.4	11.4
87.5°	3.3	2.9	3.3	3.5	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)