

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: P974780

Luminaire Tested: FLR2-24-20HE-L935-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974780
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-L935-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

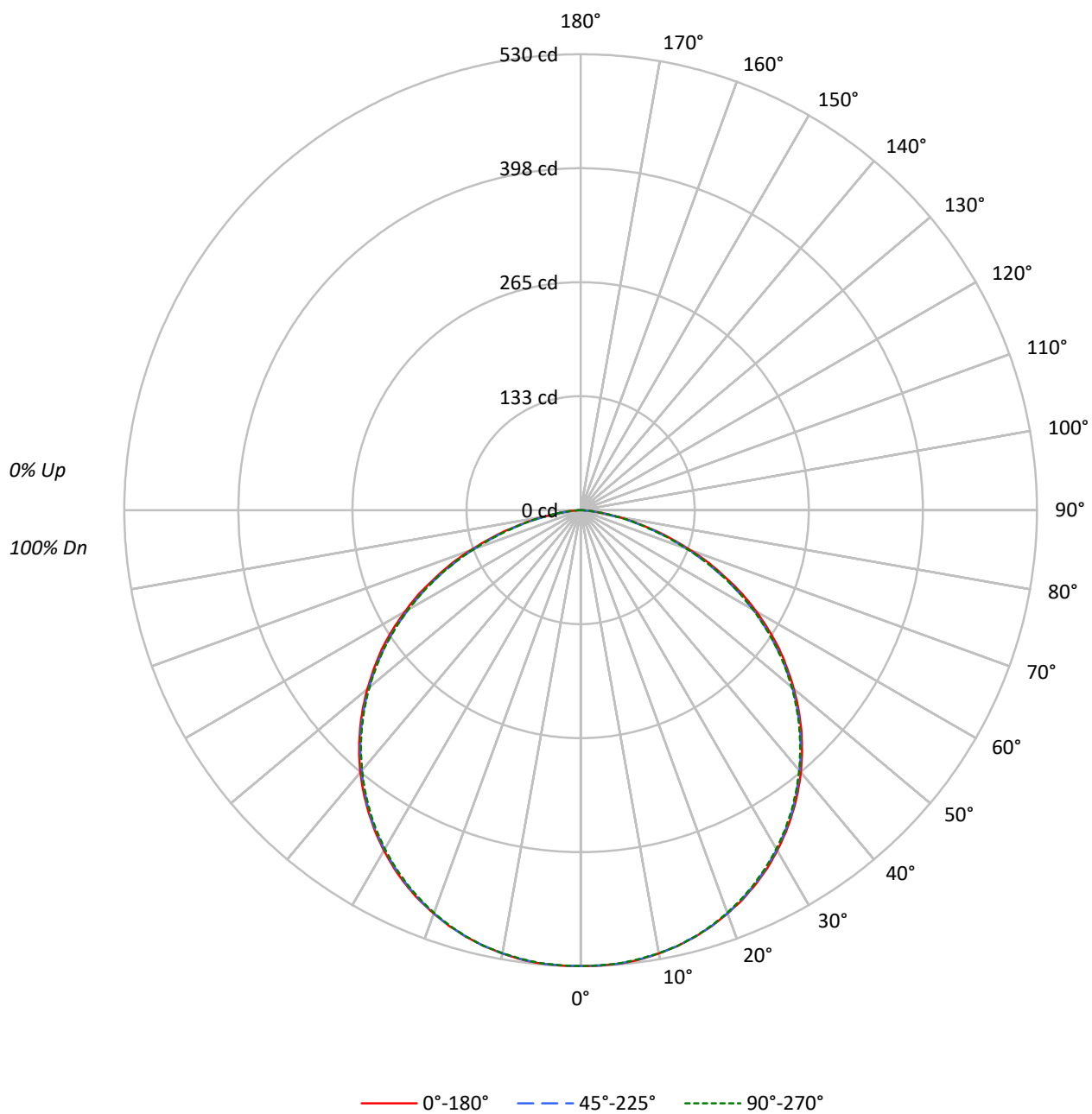
Lumens per Lamp: N/A
Luminaire Lumens: 1497.7 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	109	105	100	97	106	102	99	95	98	95	92		94	92	89		85
2	99	91	85	79	97	89	83	78	86	81	76		83	78	75		71
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		60
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		51
5	76	64	55	48	74	62	54	48	60	53	47		58	52	47		44
6	70	57	48	42	69	56	48	42	54	47	41		53	46	41		38
7	65	52	43	37	64	51	43	37	49	42	37		48	41	36		34
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		30
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		27
10	53	40	32	27	52	39	32	27	38	31	27		38	31	26		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	713	713	713
5°	714	714	714
10°	715	715	714
15°	715	715	715
20°	714	714	713
25°	713	712	711
30°	710	708	706
35°	705	703	701
40°	699	695	694
45°	690	686	684
50°	677	672	670
55°	661	652	651
60°	633	622	622
65°	592	579	580
70°	533	517	515
75°	448	430	428
80°	327	311	324
85°	185	170	173

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 690 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.3	3.4
10°-20°	144.9	9.7
20°-30°	220.9	14.8
30°-40°	267.7	17.9
40°-50°	278.0	18.6
50°-60°	248.7	16.6
60°-70°	181.3	12.1
70°-80°	89.8	6.0
80°-90°	16.0	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°	416.1	27.8
0°-40°	683.8	45.7
0°-60°	1210.6	80.8
0°-90°	1497.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1497.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	530	530	530	530	530	
5°	529	529	529	529	529	50
15°	513	513	513	514	513	145
25°	480	480	479	479	479	221
35°	429	429	428	427	427	269
45°	363	362	360	360	359	279
55°	282	280	278	278	277	251
65°	186	185	182	182	182	185
75°	86	85	83	84	82	92
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°	529.9	529.9	529.9	529.9	529.9
2.5°	529.9	529.7	529.7	529.9	529.5
5°	529.0	529.2	529.0	529.0	528.6
7.5°	526.9	526.7	526.5	526.7	526.1
10°	523.3	523.3	523.1	523.3	522.9
12.5°	518.9	518.9	518.9	519.1	518.9
15°	513.4	513.2	513.2	513.6	513.2
17.5°	506.9	506.7	506.7	506.5	506.2
20°	498.9	498.9	498.7	498.5	498.0
22.5°	490.4	490.2	489.6	489.6	488.8
25°	480.3	479.7	479.3	479.2	478.6
27.5°	469.3	468.5	467.9	467.6	467.0
30°	456.9	456.1	455.6	455.0	454.6
32.5°	443.6	443.2	442.3	442.1	441.3
35°	429.3	428.8	428.2	427.4	426.7
37.5°	414.1	413.6	412.2	411.8	411.3
40°	398.0	397.2	395.5	395.5	394.9
42.5°	380.7	379.9	378.8	378.0	377.6
45°	362.6	361.8	360.5	359.7	359.4
47.5°	343.4	342.8	341.3	340.7	340.2
50°	323.4	322.7	321.0	320.6	320.0
52.5°	302.5	302.1	299.8	299.7	299.1
55°	281.8	279.7	277.8	277.8	277.4
57.5°	259.0	257.4	255.0	255.0	254.6
60°	235.4	234.1	231.2	231.6	231.2
62.5°	212.4	209.5	206.9	208.0	207.1
65°	186.1	184.6	181.8	182.5	182.3
67.5°	162.2	159.3	156.7	158.2	157.4
70°	135.6	134.0	131.4	132.9	131.0
72.5°	110.5	109.1	106.5	108.2	106.3
75°	86.1	84.8	82.7	84.2	82.3
77.5°	63.1	62.2	60.3	61.8	62.2
80°	42.2	41.1	40.1	41.5	41.8
82.5°	24.7	24.0	23.6	23.8	24.7
85°	12.0	11.0	11.0	11.2	11.2
87.5°	3.2	2.9	3.2	3.4	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)