

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: P974769

Luminaire Tested: FLR2-24-20HE-L935-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974769
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

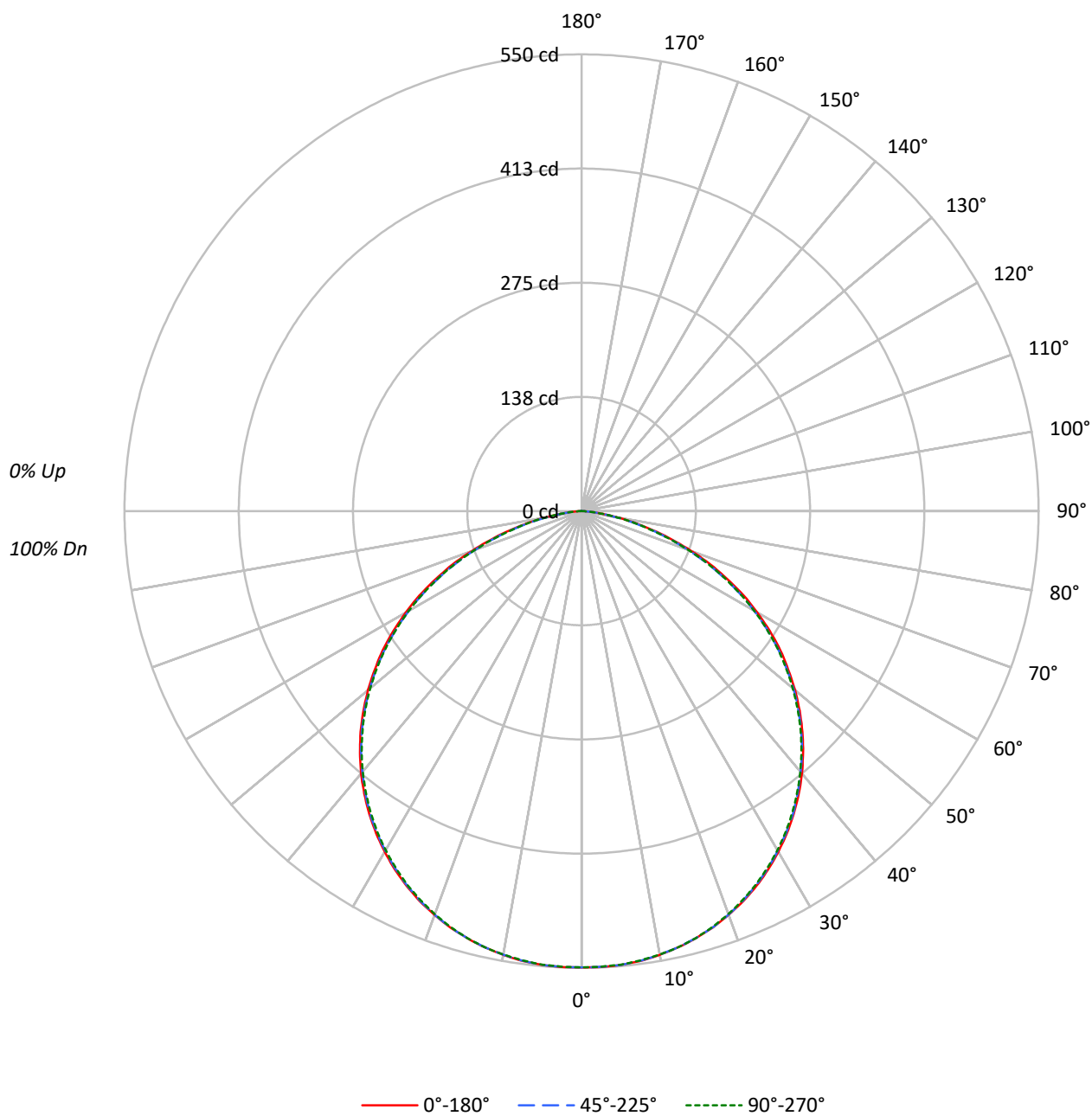
Lumens per Lamp: N/A
Luminaire Lumens: 1553.1 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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		
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°	739	739	739
5°	741	741	740
10°	741	741	741
15°	742	741	741
20°	741	741	739
25°	739	738	737
30°	736	734	732
35°	731	729	727
40°	725	720	719
45°	715	711	709
50°	702	697	695
55°	685	676	675
60°	657	645	645
65°	614	600	602
70°	553	536	535
75°	464	446	444
80°	339	322	336
85°	191	176	179

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 715 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.2	3.4
10°-20°	150.3	9.7
20°-30°	229.1	14.8
30°-40°	277.6	17.9
40°-50°	288.3	18.6
50°-60°	257.9	16.6
60°-70°	188.0	12.1
70°-80°	93.1	6.0
80°-90°	16.6	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°	431.5	27.8
0°-40°	709.1	45.7
0°-60°	1255.4	80.8
0°-90°	1553.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1553.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	550	550	550	550	550	
5°	548	549	548	548	548	52
15°	532	532	532	533	532	150
25°	498	498	497	497	496	230
35°	445	445	444	443	442	278
45°	376	375	374	373	373	290
55°	292	290	288	288	288	260
65°	193	192	188	189	189	191
75°	89	88	86	87	85	95
85°	12	11	11	12	12	17
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	549.5	549.5	549.5	549.5	549.5
2.5°	549.5	549.3	549.3	549.5	549.1
5°	548.5	548.7	548.5	548.5	548.1
7.5°	546.4	546.2	546.0	546.2	545.6
10°	542.6	542.6	542.4	542.6	542.2
12.5°	538.1	538.1	538.1	538.3	538.1
15°	532.4	532.2	532.2	532.6	532.2
17.5°	525.7	525.5	525.5	525.3	524.9
20°	517.4	517.4	517.2	517.0	516.4
22.5°	508.5	508.3	507.7	507.7	506.9
25°	498.1	497.5	497.1	496.9	496.3
27.5°	486.6	485.8	485.2	484.8	484.3
30°	473.8	473.0	472.4	471.8	471.4
32.5°	460.0	459.6	458.6	458.4	457.6
35°	445.2	444.6	444.0	443.2	442.5
37.5°	429.4	428.8	427.5	427.1	426.5
40°	412.7	411.9	410.1	410.1	409.5
42.5°	394.7	393.9	392.8	392.0	391.6
45°	376.0	375.2	373.8	373.0	372.7
47.5°	356.1	355.5	353.9	353.3	352.7
50°	335.4	334.6	332.8	332.4	331.8
52.5°	313.7	313.3	310.9	310.7	310.1
55°	292.2	290.0	288.1	288.1	287.7
57.5°	268.5	267.0	264.4	264.4	264.0
60°	244.1	242.7	239.8	240.2	239.8
62.5°	220.2	217.3	214.5	215.7	214.7
65°	193.0	191.5	188.5	189.3	189.1
67.5°	168.2	165.2	162.5	164.0	163.3
70°	140.6	139.0	136.2	137.8	135.9
72.5°	114.6	113.2	110.4	112.2	110.2
75°	89.3	87.9	85.8	87.3	85.4
77.5°	65.5	64.5	62.5	64.1	64.5
80°	43.8	42.6	41.6	43.0	43.4
82.5°	25.6	24.8	24.4	24.6	25.6
85°	12.4	11.4	11.4	11.6	11.6
87.5°	3.4	3.0	3.4	3.5	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)