

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: P974923

Luminaire Tested: FLR2-24-20HE-L940-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974923
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-L940-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

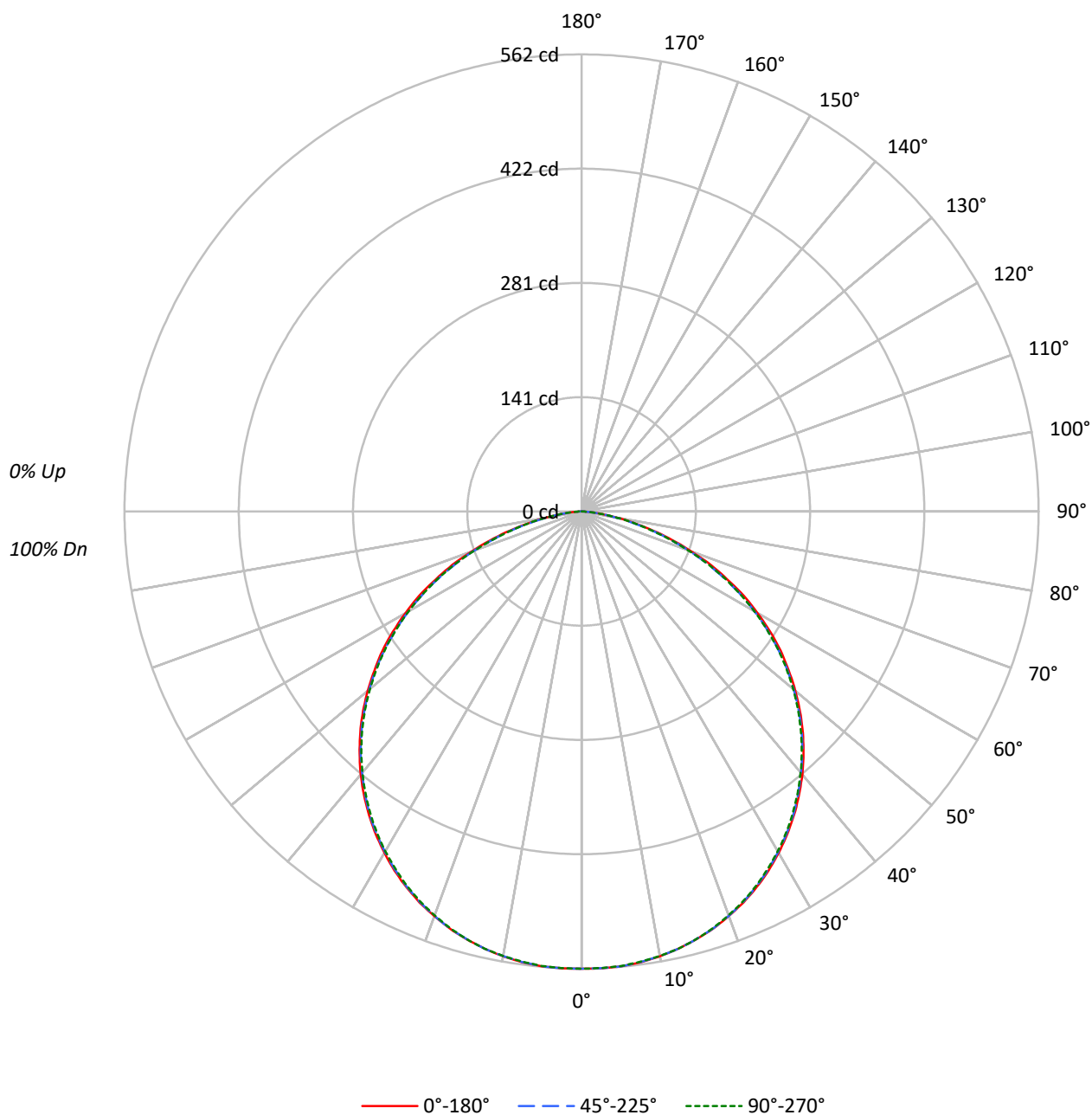
Lumens per Lamp: N/A
Luminaire Lumens: 1589.6 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	757	757	757
5°	758	758	758
10°	759	759	758
15°	759	759	759
20°	758	758	757
25°	757	755	754
30°	753	751	750
35°	749	747	744
40°	742	737	736
45°	732	728	726
50°	719	713	711
55°	702	692	691
60°	672	660	660
65°	629	614	616
70°	566	549	547
75°	475	456	454
80°	347	330	344
85°	196	181	184

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 732 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	3.4
10°-20°	153.8	9.7
20°-30°	234.5	14.8
30°-40°	284.1	17.9
40°-50°	295.1	18.6
50°-60°	264.0	16.6
60°-70°	192.4	12.1
70°-80°	95.3	6.0
80°-90°	17.0	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°	441.7	27.8
0°-40°	725.8	45.7
0°-60°	1284.9	80.8
0°-90°	1589.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1589.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	562	562	562	562	562	
5°	561	562	561	561	561	53
15°	545	545	545	545	545	154
25°	510	509	509	509	508	235
35°	456	455	454	454	453	285
45°	385	384	383	382	381	297
55°	299	297	295	295	294	266
65°	198	196	193	194	194	196
75°	91	90	88	89	87	97
85°	13	12	12	12	12	18
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	562.4	562.4	562.4	562.4	562.4
2.5°	562.4	562.2	562.2	562.4	562.0
5°	561.4	561.6	561.4	561.4	561.0
7.5°	559.2	559.0	558.8	559.0	558.4
10°	555.4	555.4	555.2	555.4	555.0
12.5°	550.7	550.7	550.7	550.9	550.7
15°	544.9	544.7	544.7	545.1	544.7
17.5°	538.0	537.8	537.8	537.6	537.2
20°	529.5	529.5	529.3	529.1	528.5
22.5°	520.5	520.3	519.7	519.7	518.9
25°	509.8	509.2	508.8	508.6	508.0
27.5°	498.1	497.3	496.7	496.2	495.6
30°	484.9	484.1	483.5	482.9	482.5
32.5°	470.8	470.4	469.4	469.2	468.4
35°	455.7	455.1	454.5	453.7	452.9
37.5°	439.5	438.9	437.5	437.1	436.5
40°	422.4	421.6	419.8	419.8	419.2
42.5°	404.0	403.2	402.0	401.2	400.8
45°	384.9	384.0	382.6	381.8	381.4
47.5°	364.5	363.9	362.2	361.6	361.0
50°	343.3	342.5	340.7	340.3	339.6
52.5°	321.1	320.7	318.3	318.1	317.4
55°	299.1	296.9	294.8	294.8	294.4
57.5°	274.9	273.3	270.6	270.6	270.2
60°	249.8	248.4	245.4	245.8	245.4
62.5°	225.4	222.4	219.6	220.8	219.8
65°	197.6	196.0	192.9	193.7	193.5
67.5°	172.1	169.1	166.3	167.9	167.1
70°	143.9	142.3	139.5	141.1	139.0
72.5°	117.3	115.8	113.0	114.8	112.8
75°	91.4	90.0	87.8	89.4	87.4
77.5°	67.0	66.0	64.0	65.6	66.0
80°	44.8	43.6	42.6	44.0	44.4
82.5°	26.2	25.4	25.0	25.2	26.2
85°	12.7	11.7	11.7	11.9	11.9
87.5°	3.4	3.0	3.4	3.6	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)