

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: P974902

Luminaire Tested: FLR2-24-30HE-L940-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974902
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: FLR2-24-30HE-L940-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

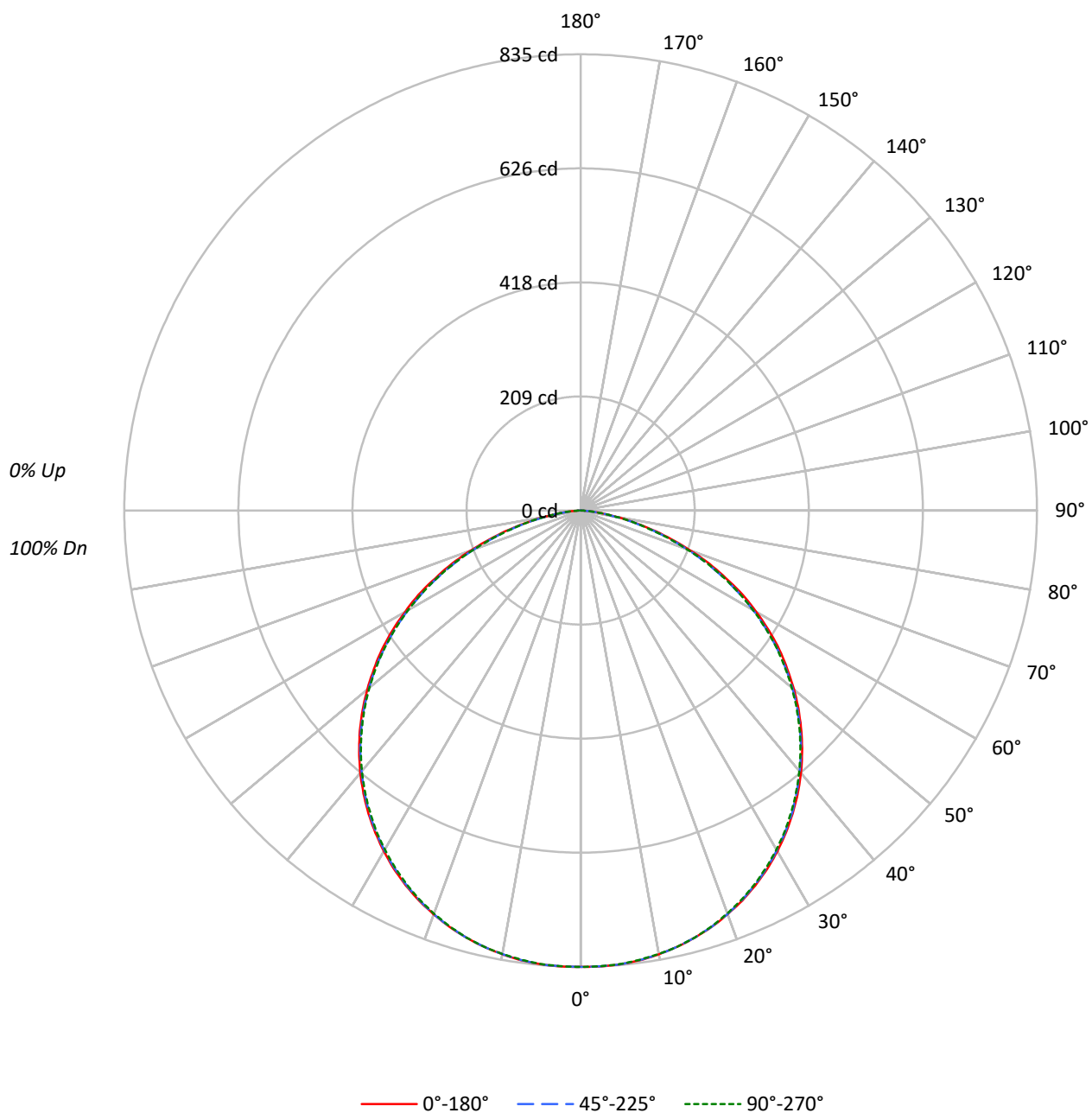
Lumens per Lamp: N/A
Luminaire Lumens: 2360.7 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 21.9
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°	1124	1124	1124
5°	1126	1126	1125
10°	1127	1126	1126
15°	1127	1127	1127
20°	1126	1126	1124
25°	1124	1122	1120
30°	1119	1116	1113
35°	1112	1109	1105
40°	1102	1095	1093
45°	1087	1081	1078
50°	1067	1059	1056
55°	1042	1027	1026
60°	998	981	981
65°	934	912	915
70°	841	815	812
75°	706	678	675
80°	515	490	511
85°	292	269	273

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1087 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.3	3.4
10°-20°	228.4	9.7
20°-30°	348.2	14.8
30°-40°	421.9	17.9
40°-50°	438.3	18.6
50°-60°	392.1	16.6
60°-70°	285.7	12.1
70°-80°	141.5	6.0
80°-90°	25.3	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°	655.9	27.8
0°-40°	1077.8	45.7
0°-60°	1908.2	80.8
0°-90°	2360.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2360.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	835	835	835	835	835	
5°	834	834	834	834	833	79
15°	809	809	809	810	809	228
25°	757	756	756	755	754	349
35°	677	676	675	674	672	423
45°	572	570	568	567	566	440
55°	444	441	438	438	437	396
65°	293	291	286	288	287	291
75°	136	134	130	133	130	145
85°	19	17	17	18	18	26
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	835.3	835.3	835.3	835.3	835.3
2.5°	835.3	835.0	835.0	835.3	834.7
5°	833.8	834.1	833.8	833.8	833.2
7.5°	830.5	830.2	829.9	830.2	829.3
10°	824.8	824.8	824.5	824.8	824.2
12.5°	817.9	817.9	817.9	818.2	817.9
15°	809.2	808.9	808.9	809.5	808.9
17.5°	799.0	798.7	798.7	798.4	797.8
20°	786.4	786.4	786.1	785.8	784.9
22.5°	772.9	772.6	771.7	771.7	770.5
25°	757.0	756.1	755.5	755.2	754.3
27.5°	739.7	738.5	737.6	737.0	736.1
30°	720.2	719.0	718.1	717.2	716.6
32.5°	699.2	698.6	697.1	696.8	695.6
35°	676.7	675.8	674.9	673.7	672.5
37.5°	652.7	651.8	649.7	649.1	648.3
40°	627.3	626.1	623.4	623.4	622.5
42.5°	600.0	598.8	597.0	595.8	595.2
45°	571.5	570.3	568.2	567.0	566.4
47.5°	541.3	540.4	538.0	537.1	536.2
50°	509.8	508.6	505.9	505.3	504.4
52.5°	476.8	476.2	472.6	472.3	471.4
55°	444.2	440.9	437.9	437.9	437.3
57.5°	408.2	405.8	401.9	401.9	401.3
60°	371.0	368.9	364.4	365.0	364.4
62.5°	334.8	330.3	326.1	327.9	326.4
65°	293.4	291.0	286.5	287.7	287.4
67.5°	255.6	251.1	247.0	249.4	248.2
70°	213.7	211.3	207.1	209.5	206.5
72.5°	174.1	172.0	167.8	170.5	167.5
75°	135.8	133.7	130.4	132.8	129.8
77.5°	99.5	98.0	95.0	97.4	98.0
80°	66.5	64.7	63.2	65.3	65.9
82.5°	39.0	37.8	37.2	37.5	39.0
85°	18.9	17.4	17.4	17.7	17.7
87.5°	5.1	4.5	5.1	5.4	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)