

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: P974913

Luminaire Tested: FLR2-24-30HE-L940-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974913
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-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

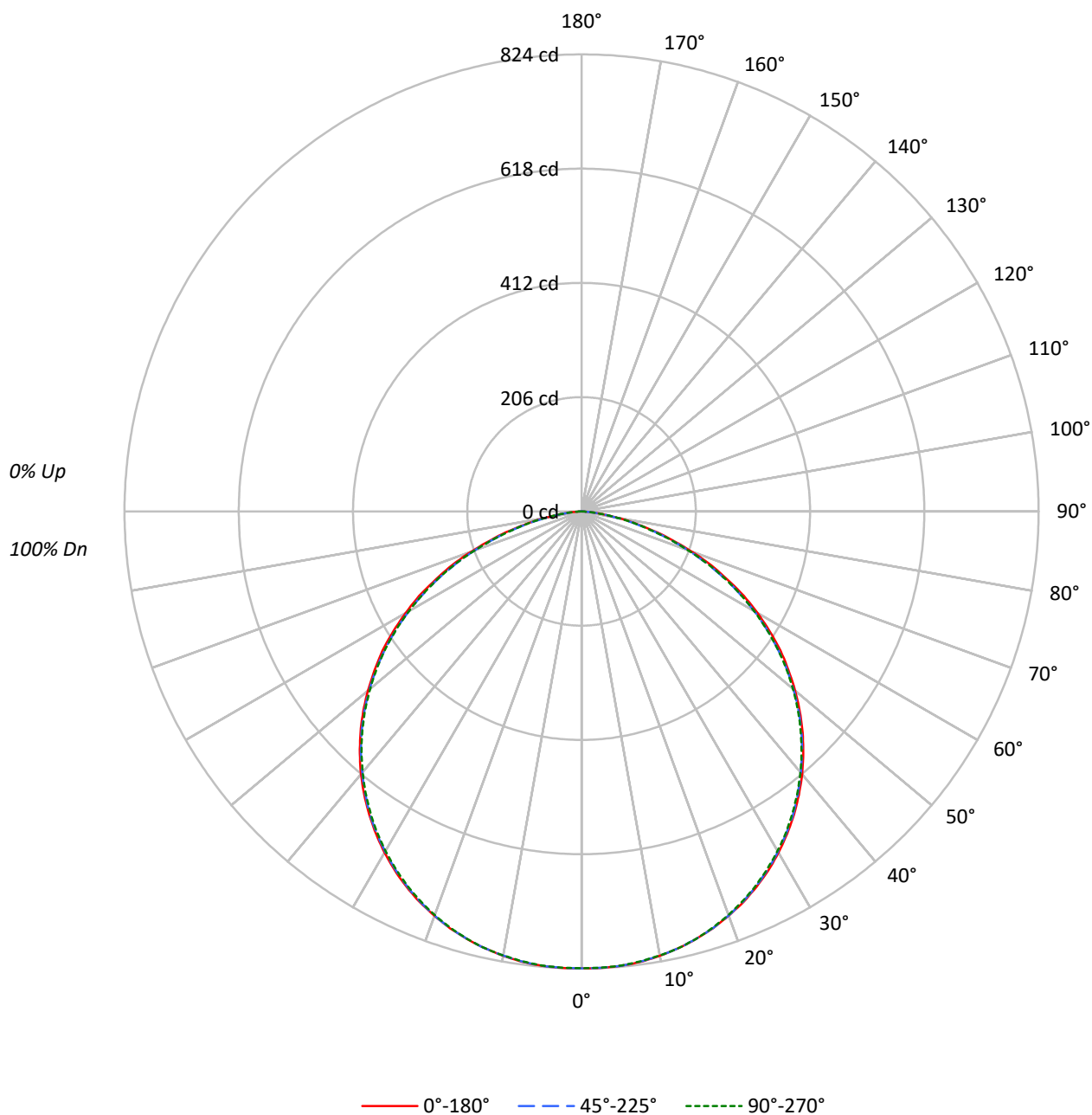
Lumens per Lamp: N/A
Luminaire Lumens: 2328.4 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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		
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°	1108	1108	1108
5°	1111	1111	1110
10°	1111	1111	1111
15°	1112	1111	1111
20°	1111	1110	1109
25°	1109	1106	1105
30°	1104	1100	1098
35°	1096	1093	1089
40°	1087	1080	1078
45°	1073	1067	1063
50°	1052	1045	1041
55°	1028	1013	1012
60°	985	967	967
65°	921	900	903
70°	829	804	801
75°	696	669	665
80°	508	483	504
85°	287	264	269

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1073 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.2	3.4
10°-20°	225.3	9.7
20°-30°	343.5	14.8
30°-40°	416.2	17.9
40°-50°	432.3	18.6
50°-60°	386.7	16.6
60°-70°	281.8	12.1
70°-80°	139.6	6.0
80°-90°	24.9	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°	647.0	27.8
0°-40°	1063.1	45.7
0°-60°	1882.1	80.8
0°-90°	2328.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2328.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	824	824	824	824	824	
5°	822	823	822	822	822	78
15°	798	798	798	798	798	225
25°	747	746	745	745	744	344
35°	668	667	666	664	663	417
45°	564	562	560	559	559	434
55°	438	435	432	432	431	390
65°	289	287	283	284	284	287
75°	134	132	129	131	128	143
85°	19	17	17	17	17	26
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	823.8	823.8	823.8	823.8	823.8
2.5°	823.8	823.5	823.5	823.8	823.2
5°	822.4	822.7	822.4	822.4	821.8
7.5°	819.1	818.8	818.5	818.8	817.9
10°	813.5	813.5	813.2	813.5	812.9
12.5°	806.7	806.7	806.7	807.0	806.7
15°	798.1	797.8	797.8	798.4	797.8
17.5°	788.1	787.8	787.8	787.5	786.9
20°	775.7	775.7	775.4	775.1	774.2
22.5°	762.4	762.1	761.2	761.2	760.0
25°	746.7	745.8	745.2	744.9	744.0
27.5°	729.5	728.4	727.5	726.9	726.0
30°	710.3	709.1	708.3	707.4	706.8
32.5°	689.6	689.0	687.6	687.3	686.1
35°	667.5	666.6	665.7	664.5	663.3
37.5°	643.8	642.9	640.9	640.3	639.4
40°	618.7	617.5	614.9	614.9	614.0
42.5°	591.8	590.6	588.8	587.7	587.1
45°	563.7	562.5	560.5	559.3	558.7
47.5°	533.9	533.0	530.6	529.7	528.8
50°	502.8	501.6	499.0	498.4	497.5
52.5°	470.3	469.7	466.2	465.9	465.0
55°	438.1	434.8	431.9	431.9	431.3
57.5°	402.6	400.2	396.4	396.4	395.8
60°	366.0	363.9	359.5	360.0	359.5
62.5°	330.2	325.8	321.6	323.4	321.9
65°	289.4	287.0	282.6	283.8	283.5
67.5°	252.1	247.7	243.6	245.9	244.8
70°	210.8	208.4	204.3	206.6	203.7
72.5°	171.7	169.7	165.5	168.2	165.2
75°	133.9	131.8	128.6	131.0	128.0
77.5°	98.1	96.7	93.7	96.1	96.7
80°	65.6	63.8	62.4	64.4	65.0
82.5°	38.4	37.2	36.7	37.0	38.4
85°	18.6	17.1	17.1	17.4	17.4
87.5°	5.0	4.4	5.0	5.3	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)