

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: P974924

Luminaire Tested: FLR2-24-30HE-L940-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974924
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

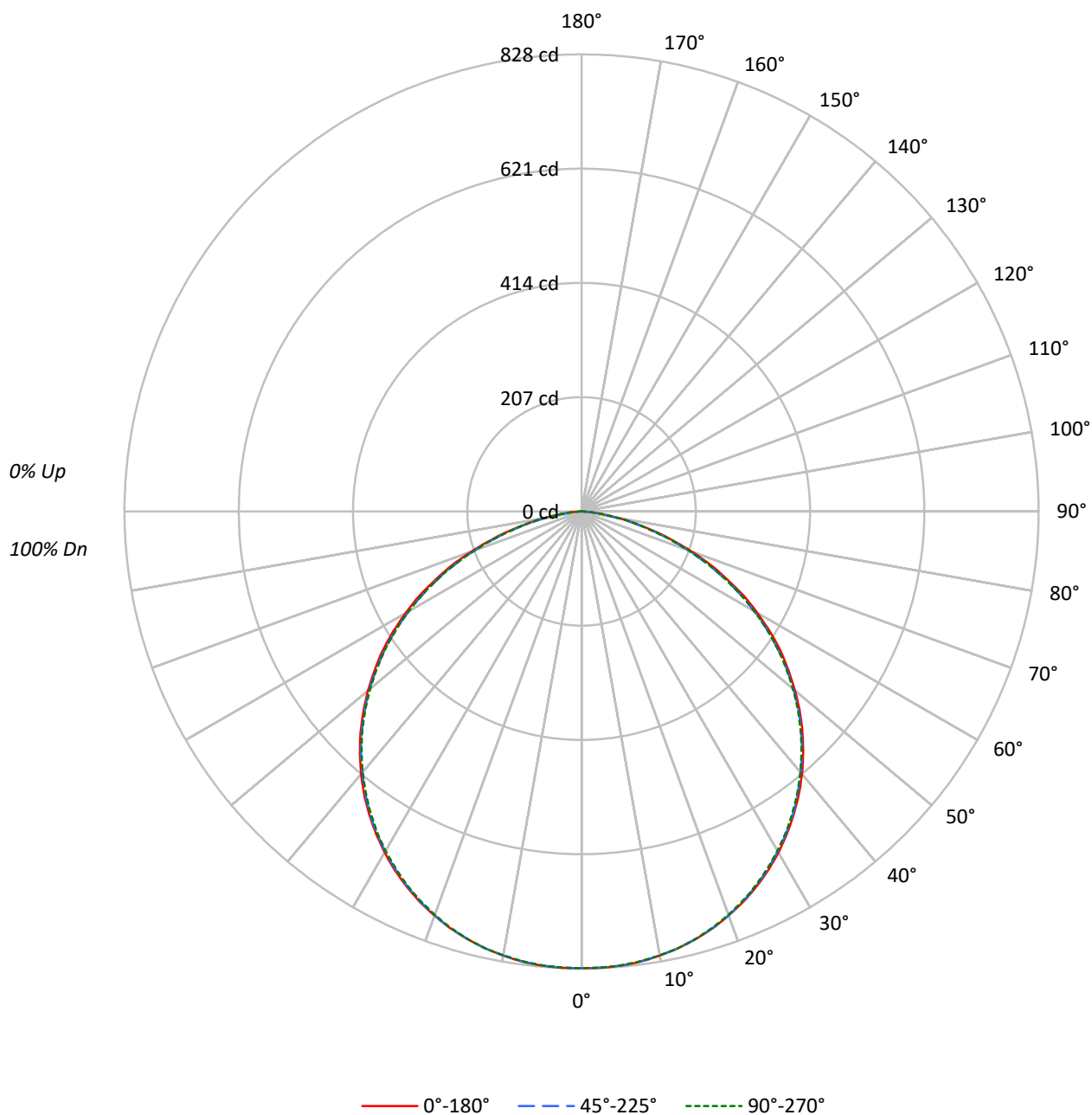
Lumens per Lamp: N/A
Luminaire Lumens: 2338.7 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1113	1113	1113
5°	1116	1116	1115
10°	1116	1116	1116
15°	1117	1116	1116
20°	1116	1115	1113
25°	1113	1111	1109
30°	1109	1105	1103
35°	1101	1098	1094
40°	1091	1085	1083
45°	1077	1071	1068
50°	1057	1049	1046
55°	1032	1018	1016
60°	989	971	971
65°	926	904	906
70°	833	807	805
75°	699	672	669
80°	511	485	506
85°	289	266	270

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1077 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	3.4
10°-20°	226.3	9.7
20°-30°	345.0	14.8
30°-40°	418.0	17.9
40°-50°	434.2	18.6
50°-60°	388.4	16.6
60°-70°	283.1	12.1
70°-80°	140.2	6.0
80°-90°	25.0	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°	649.8	27.8
0°-40°	1067.8	45.7
0°-60°	1890.4	80.8
0°-90°	2338.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2338.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	828	828	828	828	828	
5°	826	826	826	826	825	79
15°	802	801	801	802	801	226
25°	750	749	748	748	747	346
35°	670	670	669	668	666	419
45°	566	565	563	562	561	436
55°	440	437	434	434	433	392
65°	291	288	284	285	285	288
75°	134	132	129	132	129	143
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°	827.5	827.5	827.5	827.5	827.5
2.5°	827.5	827.2	827.2	827.5	826.9
5°	826.0	826.3	826.0	826.0	825.4
7.5°	822.7	822.4	822.1	822.4	821.6
10°	817.1	817.1	816.8	817.1	816.5
12.5°	810.3	810.3	810.3	810.6	810.3
15°	801.7	801.4	801.4	802.0	801.4
17.5°	791.6	791.3	791.3	791.0	790.4
20°	779.1	779.1	778.8	778.5	777.6
22.5°	765.7	765.4	764.5	764.5	763.4
25°	750.0	749.1	748.5	748.2	747.3
27.5°	732.8	731.6	730.7	730.1	729.2
30°	713.5	712.3	711.4	710.5	709.9
32.5°	692.7	692.1	690.6	690.3	689.1
35°	670.4	669.5	668.6	667.5	666.3
37.5°	646.7	645.8	643.7	643.1	642.2
40°	621.4	620.2	617.6	617.6	616.7
42.5°	594.4	593.2	591.4	590.3	589.7
45°	566.2	565.0	562.9	561.8	561.2
47.5°	536.2	535.3	533.0	532.1	531.2
50°	505.0	503.9	501.2	500.6	499.7
52.5°	472.4	471.8	468.2	467.9	467.0
55°	440.0	436.8	433.8	433.8	433.2
57.5°	404.4	402.0	398.2	398.2	397.6
60°	367.6	365.5	361.0	361.6	361.0
62.5°	331.6	327.2	323.0	324.8	323.3
65°	290.7	288.3	283.8	285.0	284.7
67.5°	253.3	248.8	244.7	247.0	245.8
70°	211.7	209.3	205.2	207.5	204.6
72.5°	172.5	170.4	166.3	168.9	166.0
75°	134.5	132.4	129.2	131.5	128.6
77.5°	98.6	97.1	94.1	96.5	97.1
80°	65.9	64.1	62.6	64.7	65.3
82.5°	38.6	37.4	36.8	37.1	38.6
85°	18.7	17.2	17.2	17.5	17.5
87.5°	5.0	4.5	5.0	5.3	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)