

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: P974616

Luminaire Tested: FLR2-24-30HE-L930-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974616
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-L930-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

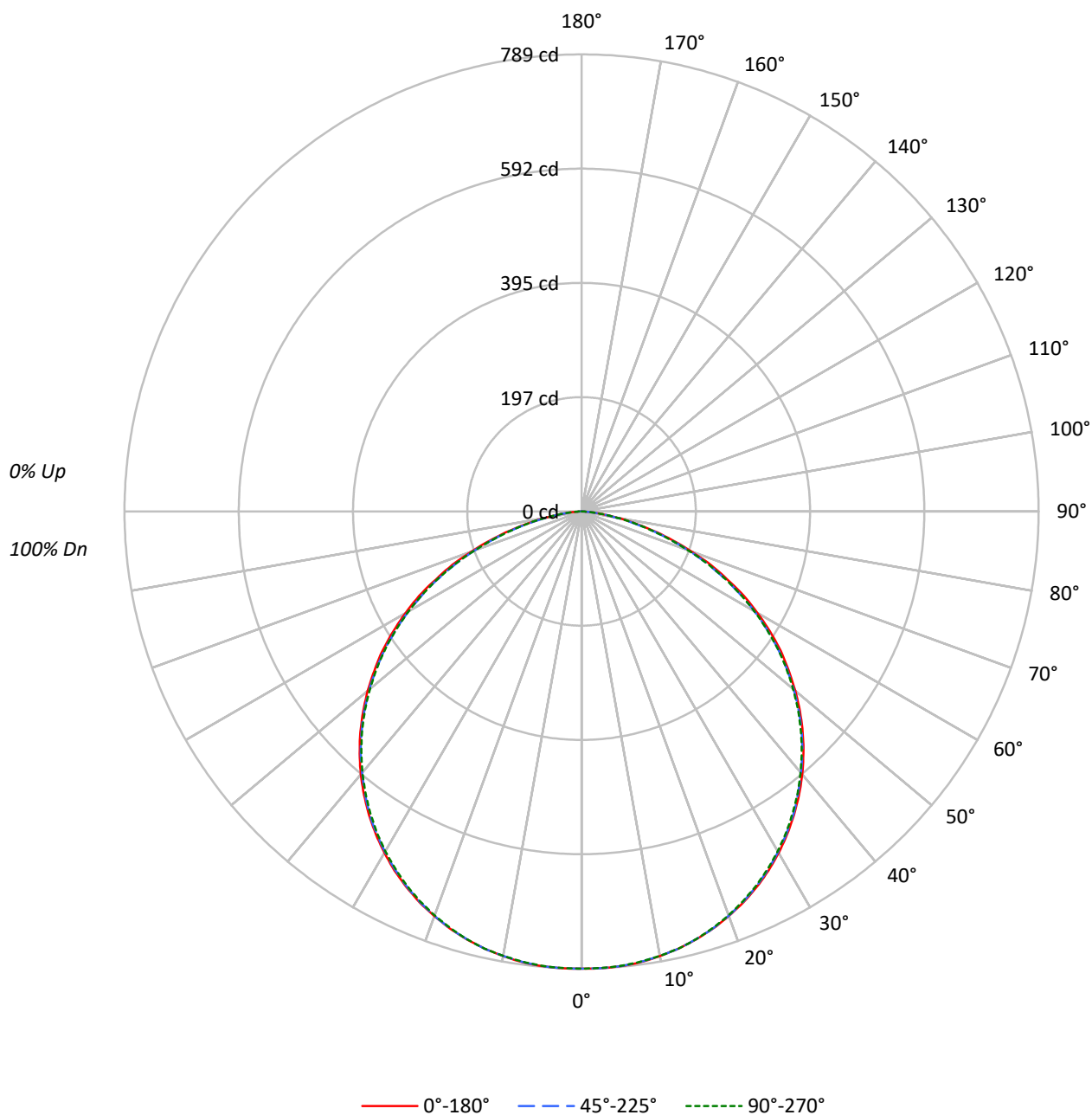
Lumens per Lamp: N/A
Luminaire Lumens: 2231.2 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1062	1062	1062
5°	1064	1064	1064
10°	1065	1065	1064
15°	1065	1065	1065
20°	1064	1064	1062
25°	1062	1060	1059
30°	1058	1054	1052
35°	1051	1048	1044
40°	1041	1035	1033
45°	1028	1022	1019
50°	1009	1001	998
55°	985	971	970
60°	944	927	927
65°	883	862	865
70°	795	770	768
75°	667	640	638
80°	487	463	483
85°	275	253	258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1028 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.9	3.4
10°-20°	215.9	9.7
20°-30°	329.1	14.8
30°-40°	398.8	17.9
40°-50°	414.2	18.6
50°-60°	370.6	16.6
60°-70°	270.1	12.1
70°-80°	133.7	6.0
80°-90°	23.9	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°	619.9	27.8
0°-40°	1018.7	45.7
0°-60°	1803.5	80.8
0°-90°	2231.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2231.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	789	789	789	789	789	
5°	788	788	788	788	788	75
15°	765	764	764	765	764	216
25°	716	715	714	714	713	330
35°	640	639	638	637	636	400
45°	540	539	537	536	535	416
55°	420	417	414	414	413	374
65°	277	275	271	272	272	275
75°	128	126	123	126	123	137
85°	18	16	16	17	17	25
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	789.4	789.4	789.4	789.4	789.4
2.5°	789.4	789.2	789.2	789.4	788.9
5°	788.0	788.3	788.0	788.0	787.5
7.5°	784.9	784.6	784.3	784.6	783.8
10°	779.5	779.5	779.2	779.5	779.0
12.5°	773.0	773.0	773.0	773.3	773.0
15°	764.8	764.5	764.5	765.1	764.5
17.5°	755.2	754.9	754.9	754.6	754.0
20°	743.3	743.3	743.0	742.7	741.9
22.5°	730.5	730.2	729.4	729.4	728.3
25°	715.5	714.7	714.1	713.8	713.0
27.5°	699.1	698.0	697.1	696.5	695.7
30°	680.7	679.5	678.7	677.8	677.3
32.5°	660.8	660.3	658.9	658.6	657.4
35°	639.6	638.8	637.9	636.8	635.6
37.5°	616.9	616.1	614.1	613.5	612.7
40°	592.9	591.7	589.2	589.2	588.3
42.5°	567.1	566.0	564.3	563.1	562.6
45°	540.2	539.0	537.1	535.9	535.4
47.5°	511.6	510.7	508.5	507.6	506.8
50°	481.8	480.7	478.1	477.6	476.7
52.5°	450.7	450.1	446.7	446.4	445.6
55°	419.8	416.7	413.8	413.8	413.3
57.5°	385.8	383.5	379.9	379.9	379.3
60°	350.7	348.7	344.4	345.0	344.4
62.5°	316.4	312.2	308.2	309.9	308.5
65°	277.3	275.0	270.8	271.9	271.6
67.5°	241.6	237.4	233.4	235.7	234.5
70°	202.0	199.7	195.7	198.0	195.2
72.5°	164.6	162.6	158.6	161.2	158.3
75°	128.3	126.3	123.2	125.5	122.7
77.5°	94.0	92.6	89.8	92.1	92.6
80°	62.9	61.2	59.8	61.8	62.3
82.5°	36.8	35.7	35.1	35.4	36.8
85°	17.8	16.4	16.4	16.7	16.7
87.5°	4.8	4.2	4.8	5.1	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)