

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: P974759

Luminaire Tested: FLR2-24-30HE-L935-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974759
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-L935-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

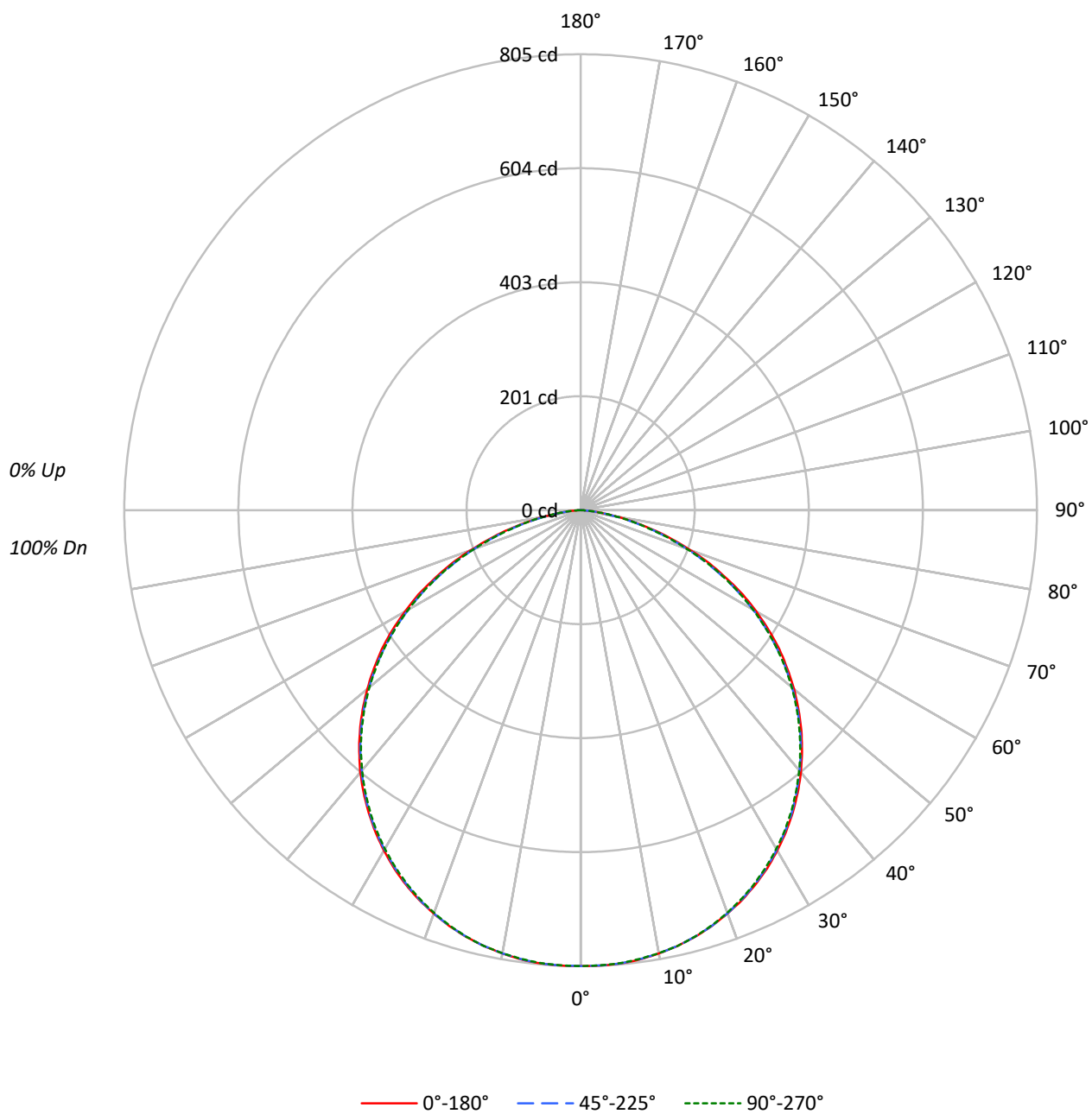
Lumens per Lamp: N/A
Luminaire Lumens: 2274.9 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1083	1083	1083
5°	1085	1085	1084
10°	1086	1085	1085
15°	1086	1086	1086
20°	1085	1085	1083
25°	1083	1081	1079
30°	1078	1075	1073
35°	1071	1068	1065
40°	1062	1055	1053
45°	1048	1042	1039
50°	1028	1020	1018
55°	1004	990	989
60°	962	945	945
65°	900	879	882
70°	810	785	783
75°	680	653	650
80°	497	472	492
85°	281	259	262

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1048 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	3.4
10°-20°	220.1	9.7
20°-30°	335.6	14.8
30°-40°	406.6	17.9
40°-50°	422.3	18.6
50°-60°	377.8	16.6
60°-70°	275.4	12.1
70°-80°	136.4	6.0
80°-90°	24.4	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°	632.1	27.8
0°-40°	1038.7	45.7
0°-60°	1838.8	80.8
0°-90°	2274.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2274.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	805	805	805	805	805	
5°	804	804	804	804	803	76
15°	780	780	780	780	780	220
25°	730	729	728	728	727	336
35°	652	651	650	649	648	408
45°	551	550	548	546	546	424
55°	428	425	422	422	421	381
65°	283	280	276	277	277	280
75°	131	129	126	128	125	139
85°	18	17	17	17	17	25
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	804.9	804.9	804.9	804.9	804.9
2.5°	804.9	804.6	804.6	804.9	804.3
5°	803.5	803.7	803.5	803.5	802.9
7.5°	800.3	800.0	799.7	800.0	799.1
10°	794.8	794.8	794.5	794.8	794.2
12.5°	788.2	788.2	788.2	788.4	788.2
15°	779.8	779.5	779.5	780.1	779.5
17.5°	770.0	769.7	769.7	769.4	768.8
20°	757.8	757.8	757.5	757.2	756.4
22.5°	744.8	744.5	743.7	743.7	742.5
25°	729.5	728.7	728.1	727.8	726.9
27.5°	712.8	711.6	710.8	710.2	709.3
30°	694.0	692.8	692.0	691.1	690.5
32.5°	673.8	673.2	671.8	671.5	670.3
35°	652.1	651.3	650.4	649.2	648.1
37.5°	629.0	628.2	626.1	625.6	624.7
40°	604.5	603.3	600.7	600.7	599.8
42.5°	578.2	577.0	575.3	574.1	573.6
45°	550.8	549.6	547.6	546.4	545.8
47.5°	521.6	520.7	518.4	517.5	516.7
50°	491.3	490.1	487.5	486.9	486.1
52.5°	459.5	458.9	455.4	455.2	454.3
55°	428.0	424.8	421.9	421.9	421.4
57.5°	393.4	391.0	387.3	387.3	386.7
60°	357.5	355.5	351.2	351.8	351.2
62.5°	322.6	318.3	314.2	316.0	314.5
65°	282.7	280.4	276.1	277.3	277.0
67.5°	246.4	242.0	238.0	240.3	239.1
70°	205.9	203.6	199.6	201.9	199.0
72.5°	167.8	165.8	161.7	164.3	161.4
75°	130.8	128.8	125.6	127.9	125.1
77.5°	95.9	94.4	91.6	93.9	94.4
80°	64.1	62.4	60.9	63.0	63.5
82.5°	37.5	36.4	35.8	36.1	37.5
85°	18.2	16.8	16.8	17.0	17.0
87.5°	4.9	4.3	4.9	5.2	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)