

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: P974561

Luminaire Tested: FLR2-24-30HE-L830-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974561
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-L830-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

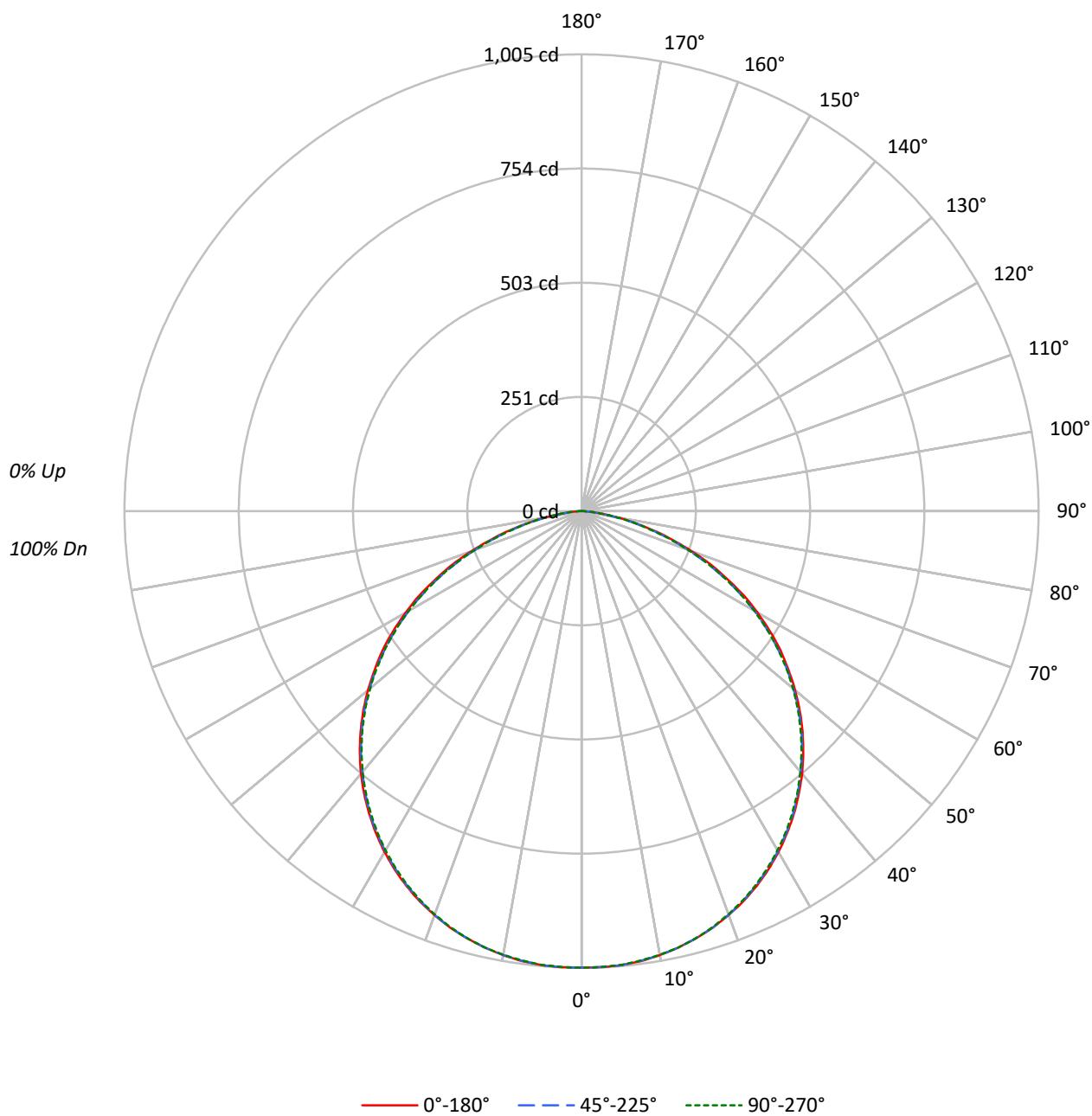
Lumens per Lamp: N/A
Luminaire Lumens: 2839.4 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1352	1352	1352
5°	1354	1354	1353
10°	1355	1355	1354
15°	1356	1355	1355
20°	1354	1354	1352
25°	1352	1349	1347
30°	1346	1342	1339
35°	1337	1333	1329
40°	1325	1317	1315
45°	1308	1301	1296
50°	1284	1274	1270
55°	1253	1235	1234
60°	1201	1179	1179
65°	1124	1097	1101
70°	1011	980	977
75°	849	815	811
80°	620	590	614
85°	350	323	329

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1308 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	3.4
10°-20°	274.7	9.7
20°-30°	418.9	14.8
30°-40°	507.5	17.9
40°-50°	527.1	18.6
50°-60°	471.6	16.6
60°-70°	343.7	12.1
70°-80°	170.2	6.0
80°-90°	30.4	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°	788.9	27.8
0°-40°	1296.4	45.7
0°-60°	2295.1	80.8
0°-90°	2839.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2839.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1005	1005	1005	1005	1005	
5°	1003	1003	1003	1003	1002	95
15°	973	973	973	974	973	275
25°	910	910	909	908	907	420
35°	814	813	812	810	809	509
45°	687	686	684	682	681	530
55°	534	530	527	527	526	476
65°	353	350	345	346	346	350
75°	163	161	157	160	156	174
85°	23	21	21	21	21	31
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1004.6	1004.6	1004.6	1004.6	1004.6
2.5°	1004.6	1004.3	1004.3	1004.6	1003.9
5°	1002.8	1003.2	1002.8	1002.8	1002.1
7.5°	998.9	998.5	998.1	998.5	997.4
10°	992.0	992.0	991.7	992.0	991.3
12.5°	983.7	983.7	983.7	984.1	983.7
15°	973.3	972.9	972.9	973.6	972.9
17.5°	961.0	960.7	960.7	960.3	959.6
20°	945.9	945.9	945.5	945.2	944.1
22.5°	929.7	929.3	928.2	928.2	926.8
25°	910.5	909.5	908.7	908.4	907.3
27.5°	889.6	888.2	887.1	886.4	885.3
30°	866.2	864.8	863.7	862.6	861.9
32.5°	841.0	840.3	838.5	838.1	836.7
35°	813.9	812.9	811.8	810.3	808.9
37.5°	785.1	784.0	781.5	780.8	779.7
40°	754.5	753.0	749.8	749.8	748.7
42.5°	721.7	720.2	718.1	716.6	715.9
45°	687.4	686.0	683.5	682.0	681.3
47.5°	651.0	649.9	647.0	646.0	644.9
50°	613.2	611.7	608.5	607.8	606.7
52.5°	573.5	572.8	568.5	568.1	567.0
55°	534.2	530.3	526.6	526.6	525.9
57.5°	491.0	488.1	483.4	483.4	482.7
60°	446.3	443.7	438.3	439.1	438.3
62.5°	402.6	397.2	392.2	394.4	392.6
65°	352.9	350.0	344.6	346.1	345.7
67.5°	307.5	302.1	297.0	299.9	298.5
70°	257.0	254.1	249.1	252.0	248.4
72.5°	209.4	206.9	201.9	205.1	201.5
75°	163.3	160.8	156.8	159.7	156.1
77.5°	119.7	117.9	114.3	117.2	117.9
80°	80.0	77.9	76.1	78.6	79.3
82.5°	46.9	45.4	44.7	45.1	46.9
85°	22.7	20.9	20.9	21.3	21.3
87.5°	6.1	5.4	6.1	6.5	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)