

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: P974726

Luminaire Tested: FLR2-24-30HE-L835-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974726
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-L835-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

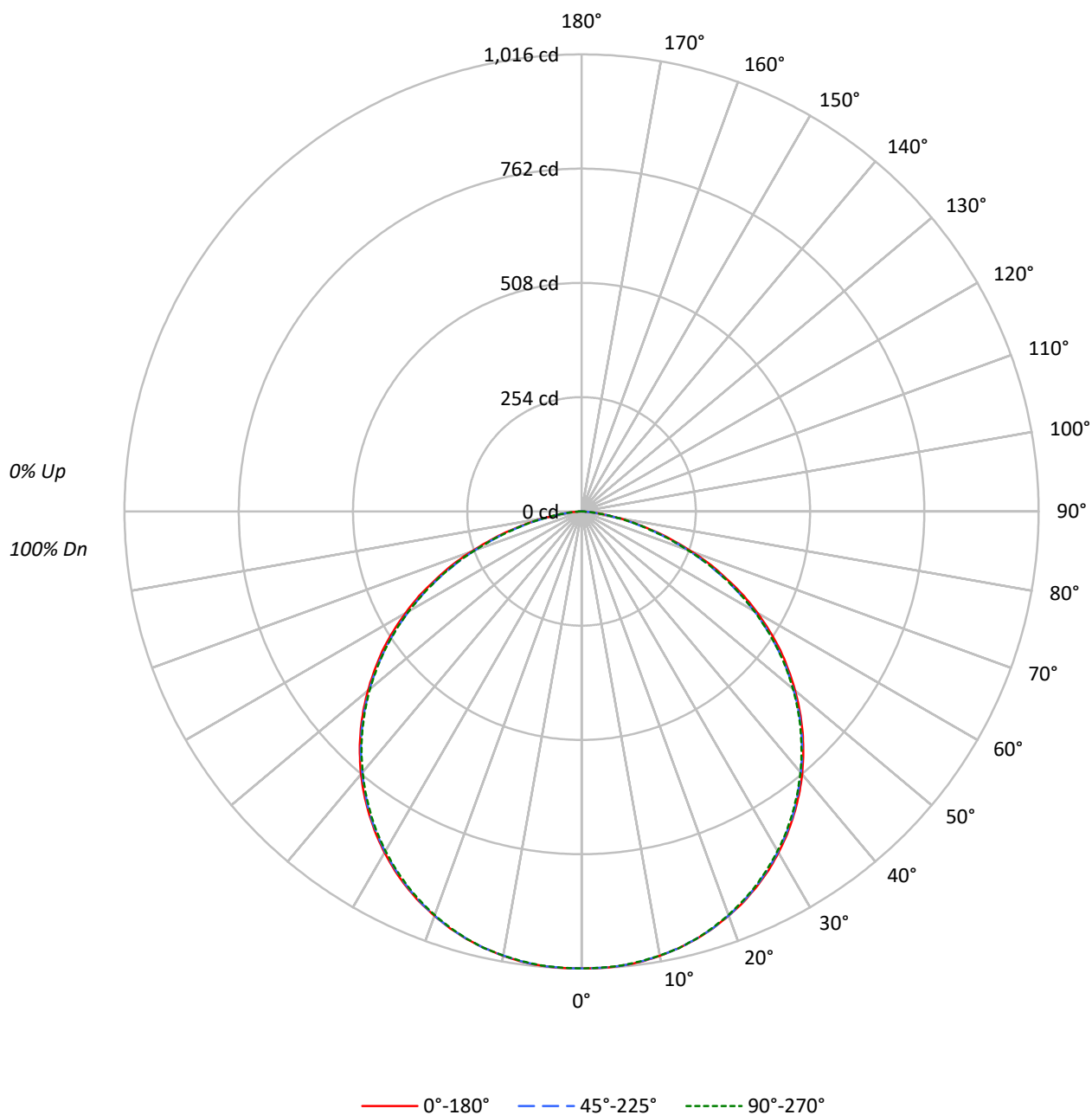
Lumens per Lamp: N/A
Luminaire Lumens: 2871.2 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P974726

CATALOG NUMBER: FLR2-24-30HE-L835-CA125

Luminous Intensity Polar Plot



TEST NUMBER: P974726

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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°	1367	1367	1367
5°	1370	1370	1369
10°	1370	1370	1370
15°	1371	1370	1370
20°	1370	1369	1367
25°	1367	1364	1362
30°	1361	1357	1354
35°	1352	1348	1343
40°	1340	1332	1330
45°	1323	1315	1311
50°	1298	1288	1284
55°	1267	1249	1247
60°	1214	1193	1193
65°	1136	1110	1113
70°	1022	991	988
75°	858	824	820
80°	627	596	621
85°	355	326	332

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1323 cd/sqm

TEST NUMBER: P974726

CATALOG NUMBER: FLR2-24-30HE-L835-CA125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.4	3.4
10°-20°	277.8	9.7
20°-30°	423.5	14.8
30°-40°	513.2	17.9
40°-50°	533.0	18.6
50°-60°	476.8	16.6
60°-70°	347.5	12.1
70°-80°	172.1	6.0
80°-90°	30.8	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°	797.7	27.8
0°-40°	1310.9	45.7
0°-60°	2320.8	80.8
0°-90°	2871.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2871.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1016	1016	1016	1016	1016	
5°	1014	1014	1014	1014	1013	96
15°	984	984	984	984	984	278
25°	921	920	919	918	918	424
35°	823	822	821	819	818	515
45°	695	694	691	690	689	536
55°	540	536	532	532	532	481
65°	357	354	348	350	350	354
75°	165	163	159	162	158	176
85°	23	21	21	22	22	32
90°	0	0	0	0	0	

TEST NUMBER: P974726

CATALOG NUMBER: FLR2-24-30HE-L835-CA125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1015.9	1015.9	1015.9	1015.9	1015.9
2.5°	1015.9	1015.5	1015.5	1015.9	1015.1
5°	1014.0	1014.4	1014.0	1014.0	1013.3
7.5°	1010.0	1009.7	1009.3	1009.7	1008.6
10°	1003.1	1003.1	1002.7	1003.1	1002.4
12.5°	994.7	994.7	994.7	995.1	994.7
15°	984.2	983.8	983.8	984.5	983.8
17.5°	971.8	971.4	971.4	971.0	970.3
20°	956.5	956.5	956.1	955.7	954.6
22.5°	940.1	939.7	938.6	938.6	937.1
25°	920.7	919.6	918.9	918.5	917.5
27.5°	899.6	898.1	897.0	896.3	895.2
30°	875.9	874.4	873.4	872.3	871.5
32.5°	850.4	849.7	847.8	847.5	846.0
35°	823.0	822.0	820.9	819.4	817.9
37.5°	793.9	792.8	790.2	789.5	788.4
40°	762.9	761.4	758.2	758.2	757.1
42.5°	729.7	728.3	726.1	724.6	723.9
45°	695.1	693.7	691.1	689.6	688.9
47.5°	658.3	657.2	654.3	653.2	652.1
50°	620.0	618.6	615.3	614.6	613.5
52.5°	579.9	579.2	574.8	574.5	573.4
55°	540.2	536.2	532.5	532.5	531.8
57.5°	496.5	493.5	488.8	488.8	488.1
60°	451.3	448.7	443.2	444.0	443.2
62.5°	407.2	401.7	396.6	398.8	396.9
65°	356.8	353.9	348.5	349.9	349.6
67.5°	310.9	305.5	300.4	303.3	301.8
70°	259.9	257.0	251.9	254.8	251.1
72.5°	211.8	209.2	204.1	207.4	203.8
75°	165.1	162.6	158.6	161.5	157.8
77.5°	121.0	119.2	115.5	118.5	119.2
80°	80.9	78.7	76.9	79.5	80.2
82.5°	47.4	45.9	45.2	45.6	47.4
85°	23.0	21.1	21.1	21.5	21.5
87.5°	6.2	5.5	6.2	6.6	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)