

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: P974725

Luminaire Tested: FLR2-24-20HE-L835-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974725
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: FLR2-24-20HE-L835-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

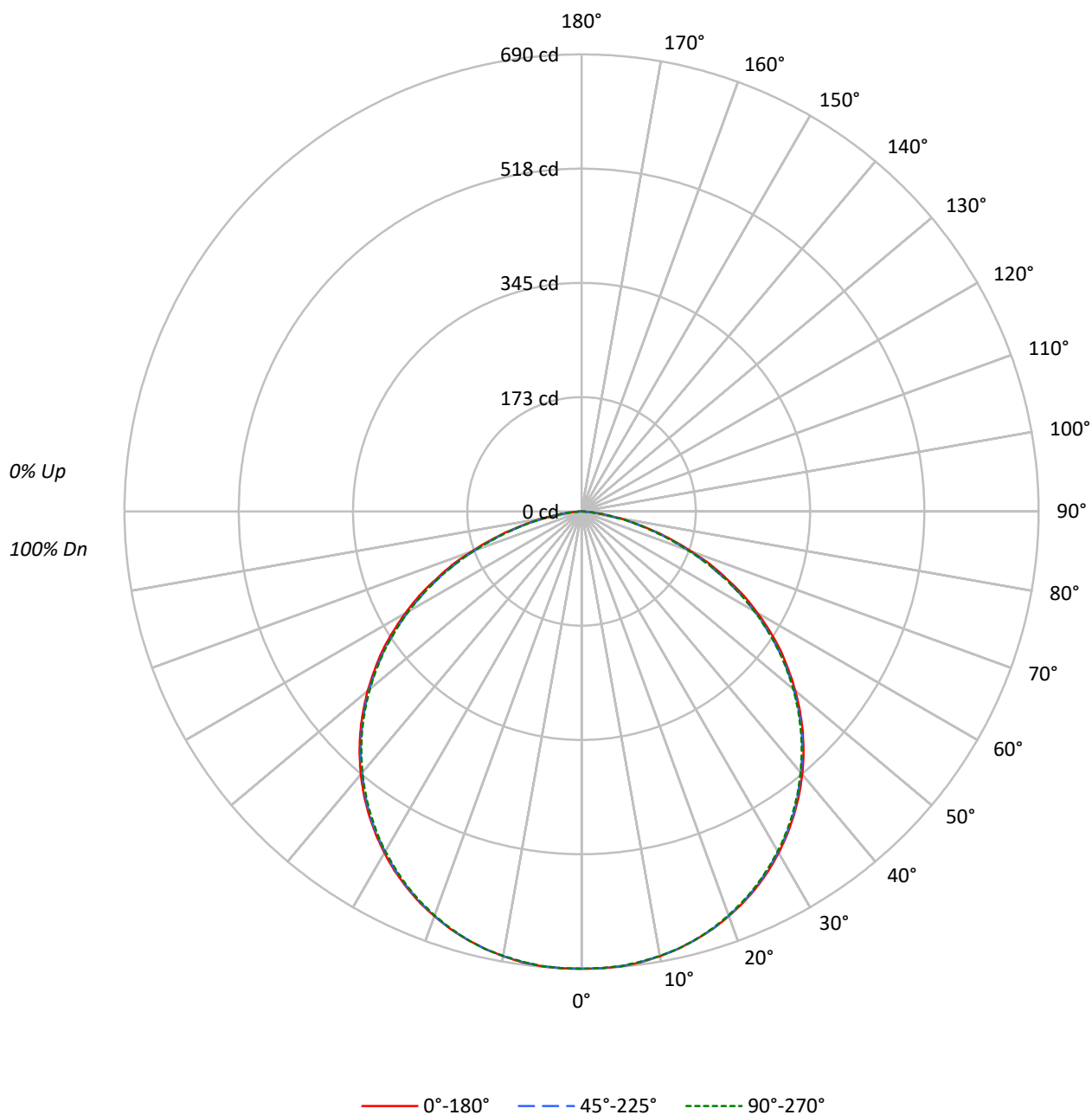
Lumens per Lamp: N/A
Luminaire Lumens: 1951.5 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 14.9
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: P974725

CATALOG NUMBER: FLR2-24-20HE-L835-CA125

Luminous Intensity Polar Plot



TEST NUMBER: P974725

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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°	929	929	929
5°	931	931	930
10°	932	931	931
15°	932	931	931
20°	931	931	929
25°	929	927	926
30°	925	922	920
35°	919	916	913
40°	911	905	904
45°	899	894	891
50°	882	875	873
55°	861	849	848
60°	825	811	811
65°	772	754	756
70°	695	673	672
75°	583	560	558
80°	426	405	422
85°	241	222	225

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 899 cd/sqm

TEST NUMBER: P974725

CATALOG NUMBER: FLR2-24-20HE-L835-CA125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.5	3.4
10°-20°	188.8	9.7
20°-30°	287.9	14.8
30°-40°	348.8	17.9
40°-50°	362.3	18.6
50°-60°	324.1	16.6
60°-70°	236.2	12.1
70°-80°	117.0	6.0
80°-90°	20.9	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°	542.2	27.8
0°-40°	891.0	45.7
0°-60°	1577.4	80.8
0°-90°	1951.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1951.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	690	690	690	690	690	
5°	689	690	689	689	689	66
15°	669	669	669	669	669	189
25°	626	625	625	624	624	288
35°	559	559	558	557	556	350
45°	472	472	470	469	468	364
55°	367	364	362	362	362	327
65°	242	241	237	238	238	240
75°	112	110	108	110	107	120
85°	16	14	14	15	15	22
90°	0	0	0	0	0	

TEST NUMBER: P974725

CATALOG NUMBER: FLR2-24-20HE-L835-CA125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	690.5	690.5	690.5	690.5	690.5
2.5°	690.5	690.2	690.2	690.5	690.0
5°	689.2	689.5	689.2	689.2	688.8
7.5°	686.5	686.3	686.0	686.3	685.5
10°	681.8	681.8	681.6	681.8	681.3
12.5°	676.1	676.1	676.1	676.4	676.1
15°	668.9	668.7	668.7	669.2	668.7
17.5°	660.5	660.3	660.3	660.0	659.5
20°	650.1	650.1	649.9	649.6	648.9
22.5°	639.0	638.7	638.0	638.0	637.0
25°	625.8	625.1	624.6	624.3	623.6
27.5°	611.5	610.5	609.7	609.2	608.5
30°	595.3	594.4	593.6	592.9	592.4
32.5°	578.0	577.5	576.3	576.0	575.0
35°	559.4	558.7	557.9	556.9	556.0
37.5°	539.6	538.9	537.1	536.6	535.9
40°	518.5	517.6	515.3	515.3	514.6
42.5°	496.0	495.0	493.5	492.5	492.0
45°	472.5	471.5	469.7	468.7	468.3
47.5°	447.4	446.7	444.7	444.0	443.2
50°	421.4	420.4	418.2	417.7	417.0
52.5°	394.2	393.7	390.7	390.5	389.7
55°	367.2	364.4	362.0	362.0	361.5
57.5°	337.4	335.5	332.2	332.2	331.7
60°	306.7	305.0	301.3	301.8	301.3
62.5°	276.7	273.0	269.6	271.0	269.8
65°	242.5	240.6	236.9	237.8	237.6
67.5°	211.3	207.6	204.1	206.1	205.1
70°	176.6	174.7	171.2	173.2	170.7
72.5°	143.9	142.2	138.7	141.0	138.5
75°	112.2	110.5	107.8	109.8	107.3
77.5°	82.3	81.0	78.5	80.5	81.0
80°	55.0	53.5	52.3	54.0	54.5
82.5°	32.2	31.2	30.7	31.0	32.2
85°	15.6	14.4	14.4	14.6	14.6
87.5°	4.2	3.7	4.2	4.5	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)