

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: P974593

Luminaire Tested: FLR2-24-20HE-L930-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974593
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-L930-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

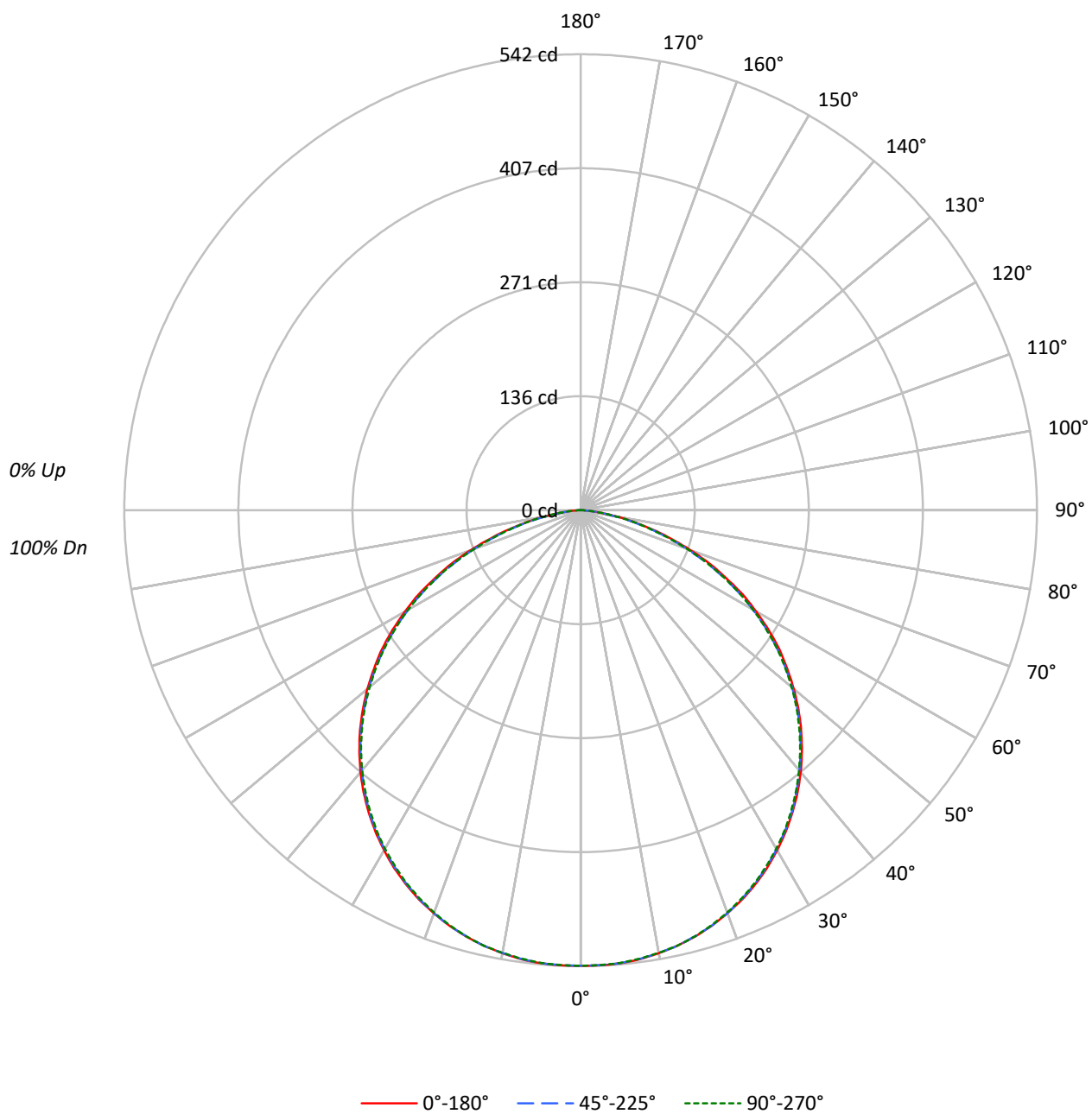
Lumens per Lamp: N/A
Luminaire Lumens: 1530.8 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P974593

CATALOG NUMBER: FLR2-24-20HE-L930-CP125

Luminous Intensity Polar Plot



TEST NUMBER: P974593

CATALOG NUMBER: FLR2-24-20HE-L930-CP125

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°	729	729	729
5°	730	730	730
10°	731	730	730
15°	731	731	731
20°	730	730	729
25°	729	727	726
30°	726	723	722
35°	721	719	716
40°	715	710	709
45°	705	701	699
50°	692	687	685
55°	676	666	665
60°	647	636	636
65°	606	592	593
70°	545	528	527
75°	457	439	437
80°	334	318	332
85°	188	174	178

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 705 cd/sqm

TEST NUMBER: P974593

CATALOG NUMBER: FLR2-24-20HE-L930-CP125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.4	3.4
10°-20°	148.1	9.7
20°-30°	225.8	14.8
30°-40°	273.6	17.9
40°-50°	284.2	18.6
50°-60°	254.2	16.6
60°-70°	185.3	12.1
70°-80°	91.8	6.0
80°-90°	16.4	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°	425.3	27.8
0°-40°	698.9	45.7
0°-60°	1237.3	80.8
0°-90°	1530.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1530.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	542	542	542	542	542	
5°	541	541	541	541	540	51
15°	525	524	524	525	524	148
25°	491	490	490	490	489	226
35°	439	438	438	437	436	274
45°	371	370	368	368	367	286
55°	288	286	284	284	284	257
65°	190	189	186	187	186	189
75°	88	87	84	86	84	94
85°	12	11	11	12	12	17
90°	0	0	0	0	0	

TEST NUMBER: P974593

CATALOG NUMBER: FLR2-24-20HE-L930-CP125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	541.6	541.6	541.6	541.6	541.6
2.5°	541.6	541.4	541.4	541.6	541.2
5°	540.7	540.8	540.7	540.7	540.3
7.5°	538.5	538.3	538.1	538.3	537.7
10°	534.8	534.8	534.6	534.8	534.4
12.5°	530.4	530.4	530.4	530.5	530.4
15°	524.7	524.5	524.5	524.9	524.5
17.5°	518.1	517.9	517.9	517.7	517.3
20°	509.9	509.9	509.8	509.6	509.0
22.5°	501.2	501.0	500.4	500.4	499.6
25°	490.9	490.3	489.9	489.7	489.2
27.5°	479.6	478.9	478.3	477.9	477.3
30°	467.0	466.2	465.6	465.1	464.7
32.5°	453.4	453.0	452.0	451.8	451.1
35°	438.8	438.2	437.7	436.9	436.1
37.5°	423.3	422.7	421.3	420.9	420.4
40°	406.8	406.0	404.2	404.2	403.6
42.5°	389.1	388.3	387.1	386.3	386.0
45°	370.6	369.8	368.5	367.7	367.3
47.5°	351.0	350.4	348.8	348.3	347.7
50°	330.6	329.8	328.0	327.7	327.1
52.5°	309.2	308.8	306.5	306.3	305.7
55°	288.0	285.9	283.9	283.9	283.5
57.5°	264.7	263.1	260.6	260.6	260.2
60°	240.6	239.2	236.3	236.7	236.3
62.5°	217.1	214.2	211.4	212.6	211.6
65°	190.3	188.7	185.8	186.6	186.4
67.5°	165.8	162.9	160.1	161.7	160.9
70°	138.6	137.0	134.3	135.8	133.9
72.5°	112.9	111.6	108.8	110.6	108.6
75°	88.0	86.7	84.5	86.1	84.1
77.5°	64.5	63.5	61.6	63.2	63.5
80°	43.1	42.0	41.0	42.4	42.8
82.5°	25.3	24.5	24.1	24.3	25.3
85°	12.2	11.3	11.3	11.5	11.5
87.5°	3.3	2.9	3.3	3.5	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)