

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: P974583

Luminaire Tested: FLR2-24-30HE-L930-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974583
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-L930-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

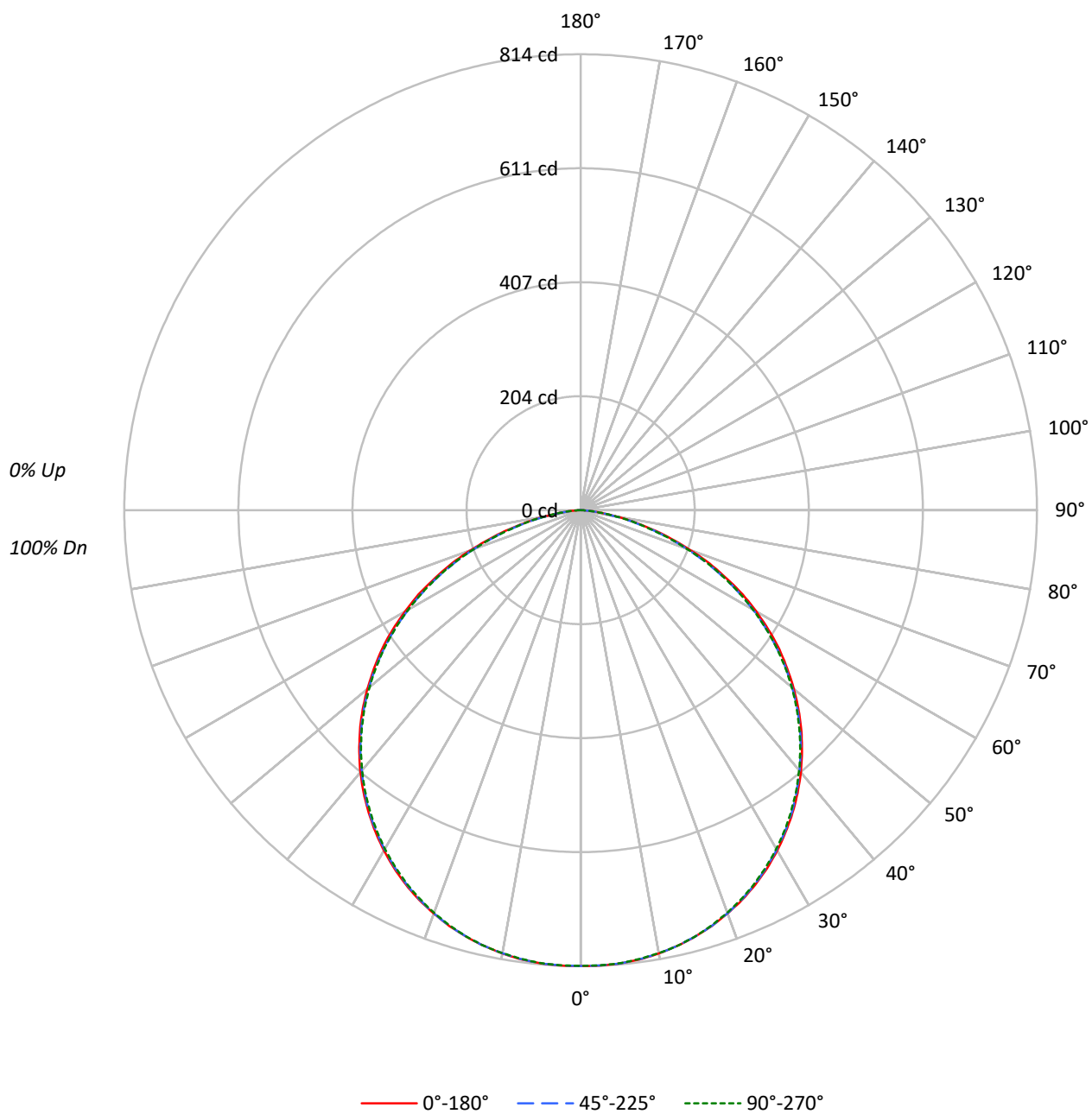
Lumens per Lamp: N/A
Luminaire Lumens: 2300.1 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P974583

CATALOG NUMBER: FLR2-24-30HE-L930-CP080

Luminous Intensity Polar Plot



TEST NUMBER: P974583

CATALOG NUMBER: FLR2-24-30HE-L930-CP080

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°	1095	1095	1095
5°	1097	1097	1096
10°	1098	1098	1097
15°	1098	1098	1098
20°	1097	1097	1095
25°	1095	1093	1091
30°	1090	1087	1085
35°	1083	1080	1076
40°	1074	1067	1065
45°	1059	1053	1050
50°	1040	1032	1029
55°	1015	1001	999
60°	973	956	956
65°	910	889	891
70°	819	794	792
75°	688	660	657
80°	502	477	497
85°	284	261	266

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1059 cd/sqm

TEST NUMBER: P974583
CATALOG NUMBER: FLR2-24-30HE-L930-CP080

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	3.4
10°-20°	222.5	9.7
20°-30°	339.3	14.8
30°-40°	411.1	17.9
40°-50°	427.0	18.6
50°-60°	382.0	16.6
60°-70°	278.4	12.1
70°-80°	137.9	6.0
80°-90°	24.6	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°	639.1	27.8
0°-40°	1050.2	45.7
0°-60°	1859.1	80.8
0°-90°	2300.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2300.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	814	814	814	814	814	
5°	812	813	812	812	812	77
15°	788	788	788	789	788	223
25°	738	737	736	736	735	340
35°	659	658	658	656	655	412
45°	557	556	554	552	552	429
55°	433	430	427	427	426	386
65°	286	284	279	280	280	283
75°	132	130	127	129	126	141
85°	18	17	17	17	17	25
90°	0	0	0	0	0	

TEST NUMBER: P974583

CATALOG NUMBER: FLR2-24-30HE-L930-CP080

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	813.8	813.8	813.8	813.8	813.8
2.5°	813.8	813.5	813.5	813.8	813.2
5°	812.3	812.6	812.3	812.3	811.8
7.5°	809.1	808.8	808.5	808.8	808.0
10°	803.6	803.6	803.3	803.6	803.0
12.5°	796.9	796.9	796.9	797.2	796.9
15°	788.4	788.1	788.1	788.7	788.1
17.5°	778.5	778.2	778.2	777.9	777.3
20°	766.2	766.2	765.9	765.6	764.7
22.5°	753.1	752.8	751.9	751.9	750.7
25°	737.6	736.7	736.1	735.8	735.0
27.5°	720.6	719.5	718.6	718.0	717.1
30°	701.7	700.5	699.6	698.7	698.2
32.5°	681.2	680.6	679.2	678.9	677.7
35°	659.3	658.5	657.6	656.4	655.2
37.5°	636.0	635.1	633.1	632.5	631.6
40°	611.2	610.0	607.4	607.4	606.5
42.5°	584.6	583.4	581.7	580.5	579.9
45°	556.8	555.7	553.6	552.5	551.9
47.5°	527.3	526.5	524.1	523.3	522.4
50°	496.7	495.5	492.9	492.3	491.4
52.5°	464.6	464.0	460.5	460.2	459.3
55°	432.7	429.5	426.6	426.6	426.0
57.5°	397.7	395.4	391.6	391.6	391.0
60°	361.5	359.4	355.1	355.7	355.1
62.5°	326.2	321.8	317.7	319.4	318.0
65°	285.9	283.5	279.1	280.3	280.0
67.5°	249.1	244.7	240.6	242.9	241.8
70°	208.2	205.9	201.8	204.1	201.2
72.5°	169.7	167.6	163.5	166.1	163.2
75°	132.3	130.2	127.0	129.4	126.4
77.5°	96.9	95.5	92.6	94.9	95.5
80°	64.8	63.1	61.6	63.7	64.2
82.5°	38.0	36.8	36.2	36.5	38.0
85°	18.4	16.9	16.9	17.2	17.2
87.5°	5.0	4.4	5.0	5.3	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)