

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: P974638

Luminaire Tested: FLR2-24-30HE-L930-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974638
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-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

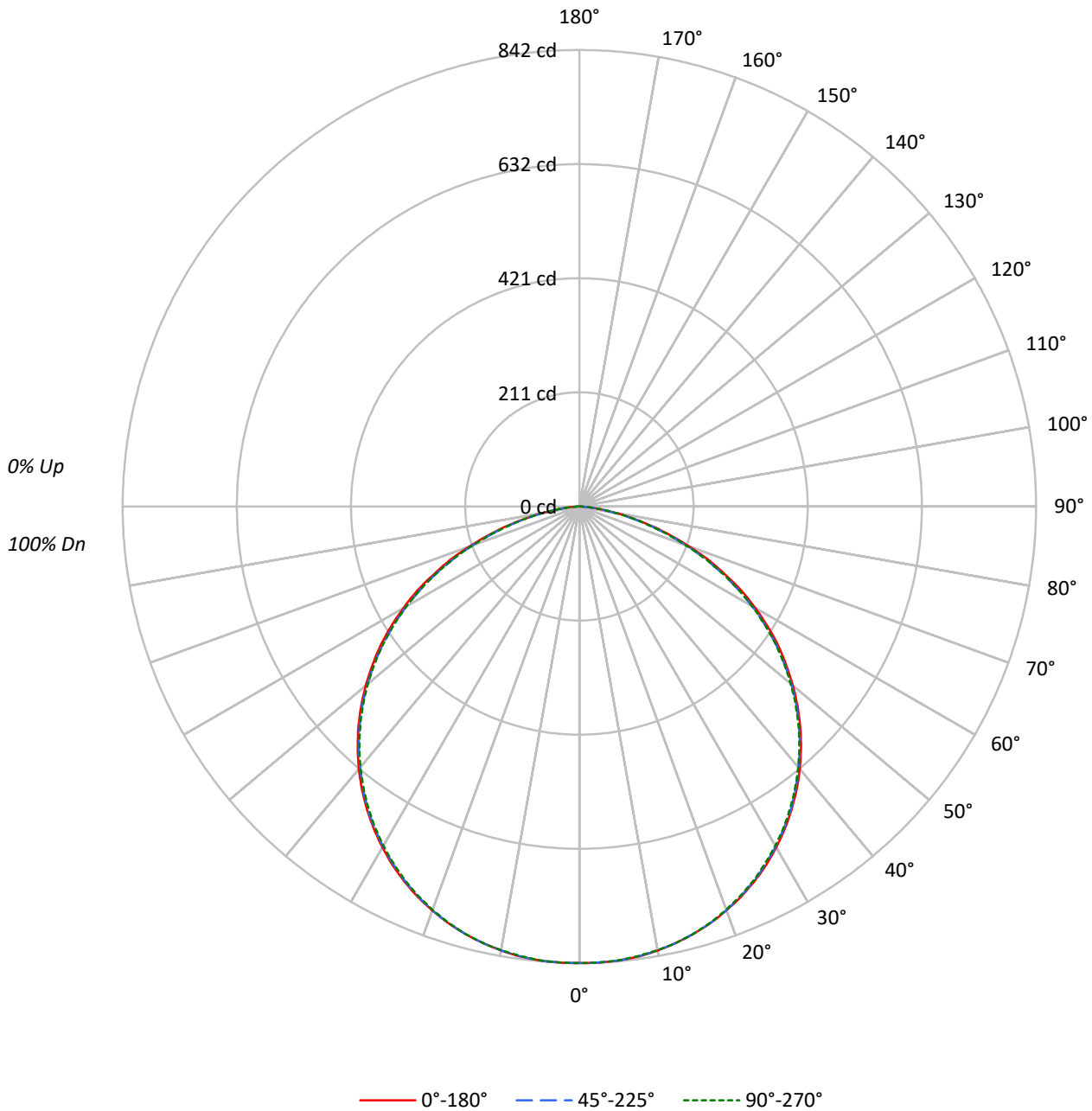
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2380.5 lumens
Efficiency: N/A
Efficacy: 108.7 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										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	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°	1133	1133	1133
5°	1136	1136	1135
10°	1136	1136	1135
15°	1137	1136	1136
20°	1135	1135	1133
25°	1133	1131	1129
30°	1128	1125	1123
35°	1121	1118	1114
40°	1111	1104	1102
45°	1097	1090	1087
50°	1076	1068	1065
55°	1051	1036	1034
60°	1007	989	989
65°	942	920	923
70°	848	821	819
75°	712	684	680
80°	520	494	515
85°	293	270	275

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1097 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.9	3.4
10°-20°	230.3	9.7
20°-30°	351.2	14.8
30°-40°	425.5	17.9
40°-50°	441.9	18.6
50°-60°	395.3	16.6
60°-70°	288.1	12.1
70°-80°	142.7	6.0
80°-90°	25.5	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°	661.4	27.8
0°-40°	1086.9	45.7
0°-60°	1924.2	80.8
0°-90°	2380.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2380.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	842	842	842	842	842	
5°	841	841	841	841	840	80
15°	816	816	816	816	816	230
25°	763	762	762	762	761	352
35°	682	682	681	679	678	427
45°	576	575	573	572	571	444
55°	448	445	442	442	441	399
65°	296	293	289	290	290	293
75°	137	135	132	134	131	146
85°	19	18	18	18	18	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	842.3	842.3	842.3	842.3	842.3
2.5°	842.3	842.0	842.0	842.3	841.7
5°	840.8	841.1	840.8	840.8	840.2
7.5°	837.4	837.1	836.8	837.1	836.2
10°	831.7	831.7	831.4	831.7	831.1
12.5°	824.7	824.7	824.7	825.0	824.7
15°	816.0	815.7	815.7	816.3	815.7
17.5°	805.7	805.4	805.4	805.1	804.5
20°	793.0	793.0	792.7	792.4	791.5
22.5°	779.4	779.1	778.2	778.2	777.0
25°	763.4	762.5	761.9	761.6	760.7
27.5°	745.9	744.7	743.7	743.1	742.2
30°	726.2	725.0	724.1	723.2	722.6
32.5°	705.1	704.5	702.9	702.6	701.4
35°	682.4	681.5	680.6	679.4	678.2
37.5°	658.2	657.3	655.2	654.6	653.7
40°	632.5	631.3	628.6	628.6	627.7
42.5°	605.0	603.8	602.0	600.8	600.2
45°	576.3	575.1	573.0	571.8	571.2
47.5°	545.8	544.9	542.5	541.6	540.7
50°	514.1	512.9	510.1	509.5	508.6
52.5°	480.8	480.2	476.6	476.3	475.4
55°	447.9	444.6	441.5	441.5	440.9
57.5°	411.6	409.2	405.3	405.3	404.7
60°	374.1	372.0	367.5	368.1	367.5
62.5°	337.6	333.0	328.8	330.6	329.1
65°	295.9	293.4	288.9	290.1	289.8
67.5°	257.8	253.3	249.0	251.4	250.2
70°	215.5	213.1	208.8	211.2	208.2
72.5°	175.6	173.5	169.2	172.0	168.9
75°	136.9	134.8	131.5	133.9	130.9
77.5°	100.3	98.8	95.8	98.2	98.8
80°	67.1	65.3	63.8	65.9	66.5
82.5°	39.3	38.1	37.5	37.8	39.3
85°	19.0	17.5	17.5	17.8	17.8
87.5°	5.1	4.5	5.1	5.4	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)