

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: P974596

Luminaire Tested: FLR2-24-40HE-L930-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974596
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: FLR2-24-40HE-L930-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

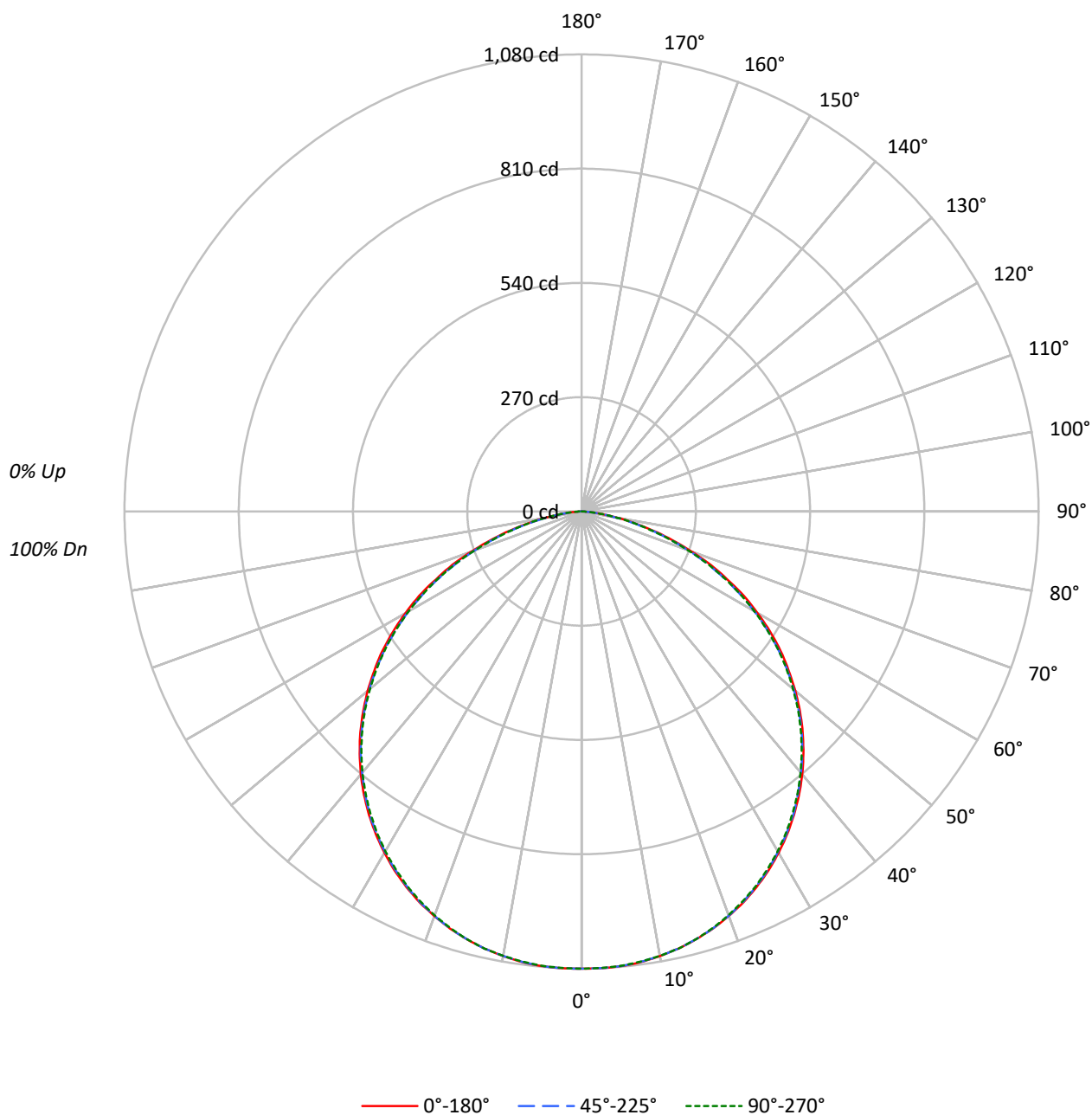
Lumens per Lamp: N/A
Luminaire Lumens: 3053.9 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.9
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					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°	1454	1454	1454
5°	1457	1457	1456
10°	1458	1457	1457
15°	1458	1458	1458
20°	1457	1456	1454
25°	1454	1451	1449
30°	1447	1443	1440
35°	1438	1434	1429
40°	1425	1416	1414
45°	1407	1399	1394
50°	1380	1370	1366
55°	1348	1329	1327
60°	1292	1269	1269
65°	1209	1180	1184
70°	1087	1054	1051
75°	913	876	873
80°	667	634	661
85°	377	347	354

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1407 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.6	3.4
10°-20°	295.5	9.7
20°-30°	450.5	14.8
30°-40°	545.8	17.9
40°-50°	566.9	18.6
50°-60°	507.2	16.6
60°-70°	369.6	12.1
70°-80°	183.1	6.0
80°-90°	32.7	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°	848.5	27.8
0°-40°	1394.3	45.7
0°-60°	2468.4	80.8
0°-90°	3053.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3053.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1080	1080	1080	1080	1080	
5°	1079	1079	1079	1079	1078	103
15°	1047	1046	1046	1047	1046	296
25°	979	978	977	977	976	451
35°	875	874	873	872	870	548
45°	739	738	735	734	733	570
55°	575	570	566	566	566	512
65°	380	376	371	372	372	376
75°	176	173	169	172	168	187
85°	24	22	22	23	23	34
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1080.5	1080.5	1080.5	1080.5	1080.5
2.5°	1080.5	1080.1	1080.1	1080.5	1079.7
5°	1078.6	1079.0	1078.6	1078.6	1077.8
7.5°	1074.3	1073.9	1073.5	1073.9	1072.8
10°	1066.9	1066.9	1066.6	1066.9	1066.2
12.5°	1058.0	1058.0	1058.0	1058.4	1058.0
15°	1046.8	1046.4	1046.4	1047.2	1046.4
17.5°	1033.6	1033.2	1033.2	1032.8	1032.1
20°	1017.3	1017.3	1016.9	1016.5	1015.4
22.5°	999.9	999.5	998.3	998.3	996.8
25°	979.3	978.2	977.4	977.0	975.8
27.5°	956.8	955.3	954.1	953.4	952.2
30°	931.6	930.1	928.9	927.8	927.0
32.5°	904.5	903.7	901.8	901.4	899.8
35°	875.4	874.3	873.1	871.5	870.0
37.5°	844.4	843.2	840.5	839.8	838.6
40°	811.5	809.9	806.4	806.4	805.3
42.5°	776.2	774.6	772.3	770.7	770.0
45°	739.3	737.8	735.1	733.5	732.8
47.5°	700.2	699.0	695.9	694.8	693.6
50°	659.5	657.9	654.4	653.7	652.5
52.5°	616.8	616.1	611.4	611.0	609.9
55°	574.6	570.3	566.4	566.4	565.7
57.5°	528.0	524.9	519.9	519.9	519.1
60°	480.0	477.3	471.4	472.2	471.4
62.5°	433.1	427.2	421.8	424.1	422.2
65°	379.6	376.5	370.6	372.2	371.8
67.5°	330.7	324.9	319.5	322.6	321.0
70°	276.4	273.3	267.9	271.0	267.1
72.5°	225.3	222.5	217.1	220.6	216.7
75°	175.6	172.9	168.6	171.8	167.9
77.5°	128.7	126.8	122.9	126.0	126.8
80°	86.1	83.7	81.8	84.5	85.3
82.5°	50.4	48.9	48.1	48.5	50.4
85°	24.4	22.5	22.5	22.9	22.9
87.5°	6.6	5.8	6.6	7.0	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)