

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: P974607

Luminaire Tested: FLR2-24-40HE-L930-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974607
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-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

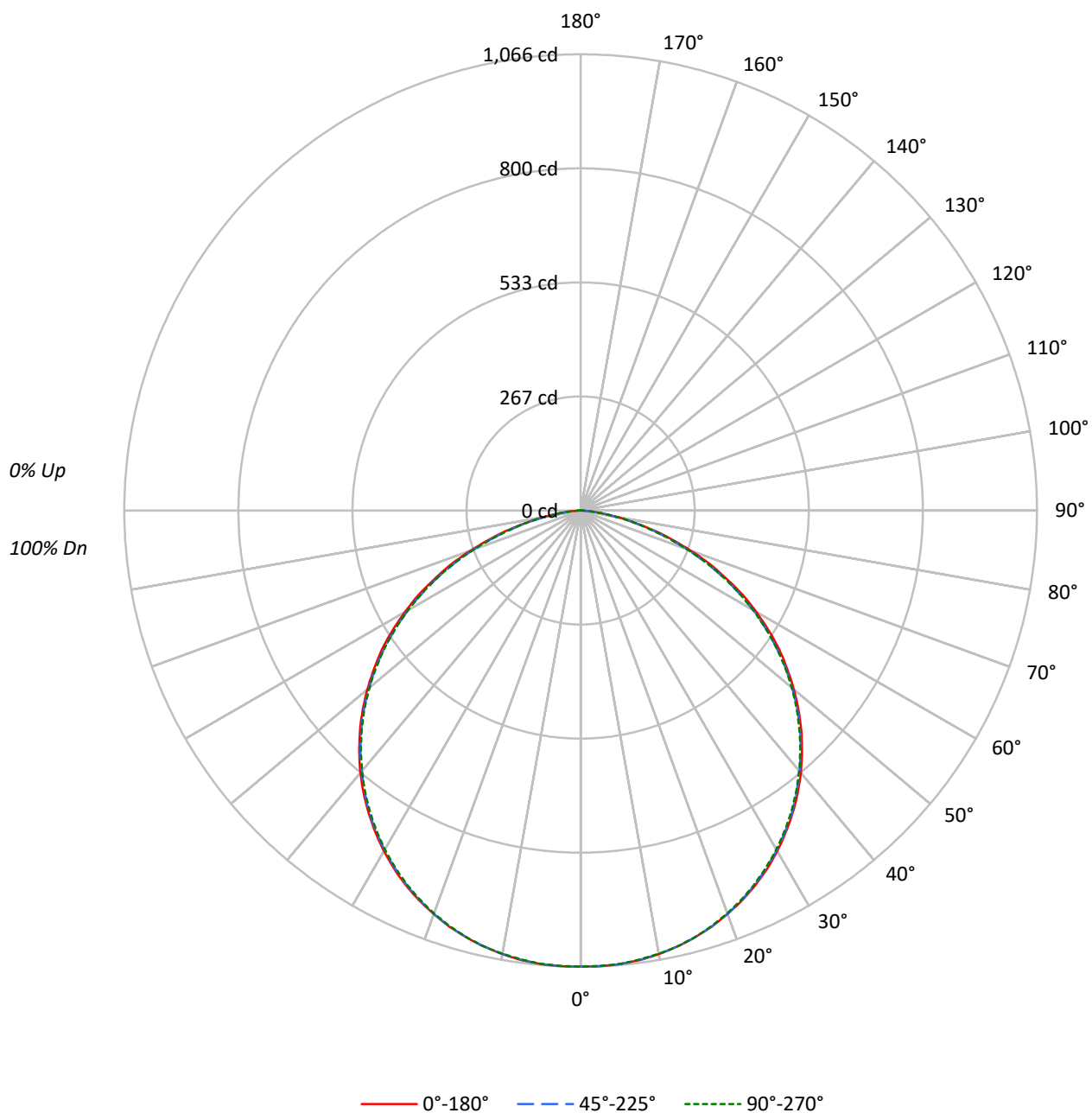
Lumens per Lamp: N/A
Luminaire Lumens: 3012.1 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	1434	1434	1434
5°	1437	1437	1436
10°	1438	1437	1437
15°	1438	1438	1438
20°	1437	1436	1434
25°	1434	1431	1429
30°	1428	1423	1420
35°	1418	1415	1409
40°	1406	1397	1395
45°	1388	1380	1375
50°	1362	1351	1347
55°	1329	1311	1309
60°	1274	1251	1251
65°	1192	1164	1167
70°	1072	1039	1037
75°	900	865	861
80°	658	625	652
85°	372	343	349

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1388 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	3.4
10°-20°	291.4	9.7
20°-30°	444.3	14.8
30°-40°	538.3	17.9
40°-50°	559.2	18.6
50°-60°	500.2	16.6
60°-70°	364.6	12.1
70°-80°	180.5	6.0
80°-90°	32.3	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°	836.9	27.8
0°-40°	1375.3	45.7
0°-60°	2434.7	80.8
0°-90°	3012.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3012.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1066	1066	1066	1066	1066	
5°	1064	1064	1064	1064	1063	101
15°	1032	1032	1032	1033	1032	292
25°	966	965	964	964	962	445
35°	864	862	861	860	858	540
45°	729	728	725	724	723	562
55°	567	562	559	559	558	505
65°	374	371	366	367	367	371
75°	173	170	166	169	166	185
85°	24	22	22	23	23	33
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1065.7	1065.7	1065.7	1065.7	1065.7
2.5°	1065.7	1065.4	1065.4	1065.7	1065.0
5°	1063.8	1064.2	1063.8	1063.8	1063.1
7.5°	1059.6	1059.2	1058.9	1059.2	1058.1
10°	1052.4	1052.4	1052.0	1052.4	1051.6
12.5°	1043.6	1043.6	1043.6	1043.9	1043.6
15°	1032.5	1032.1	1032.1	1032.9	1032.1
17.5°	1019.5	1019.1	1019.1	1018.7	1017.9
20°	1003.4	1003.4	1003.0	1002.6	1001.5
22.5°	986.2	985.8	984.7	984.7	983.1
25°	965.9	964.8	964.0	963.6	962.5
27.5°	943.8	942.2	941.1	940.3	939.2
30°	918.9	917.4	916.2	915.1	914.3
32.5°	892.1	891.4	889.5	889.1	887.5
35°	863.5	862.3	861.2	859.6	858.1
37.5°	832.9	831.7	829.0	828.3	827.1
40°	800.4	798.8	795.4	795.4	794.2
42.5°	765.6	764.0	761.7	760.2	759.4
45°	729.2	727.7	725.0	723.5	722.7
47.5°	690.6	689.5	686.4	685.3	684.1
50°	650.5	648.9	645.5	644.7	643.6
52.5°	608.4	607.6	603.0	602.7	601.5
55°	566.7	562.5	558.7	558.7	557.9
57.5°	520.8	517.8	512.8	512.8	512.0
60°	473.4	470.7	465.0	465.8	465.0
62.5°	427.1	421.4	416.0	418.3	416.4
65°	374.4	371.3	365.6	367.1	366.7
67.5°	326.2	320.4	315.1	318.2	316.6
70°	272.6	269.6	264.2	267.3	263.5
72.5°	222.2	219.5	214.1	217.6	213.8
75°	173.2	170.5	166.3	169.4	165.6
77.5°	127.0	125.0	121.2	124.3	125.0
80°	84.9	82.6	80.7	83.4	84.1
82.5°	49.7	48.2	47.4	47.8	49.7
85°	24.1	22.2	22.2	22.6	22.6
87.5°	6.5	5.7	6.5	6.9	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)