

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: P975023

Luminaire Tested: FLR2-24-30HE-L850-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975023
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-L850-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

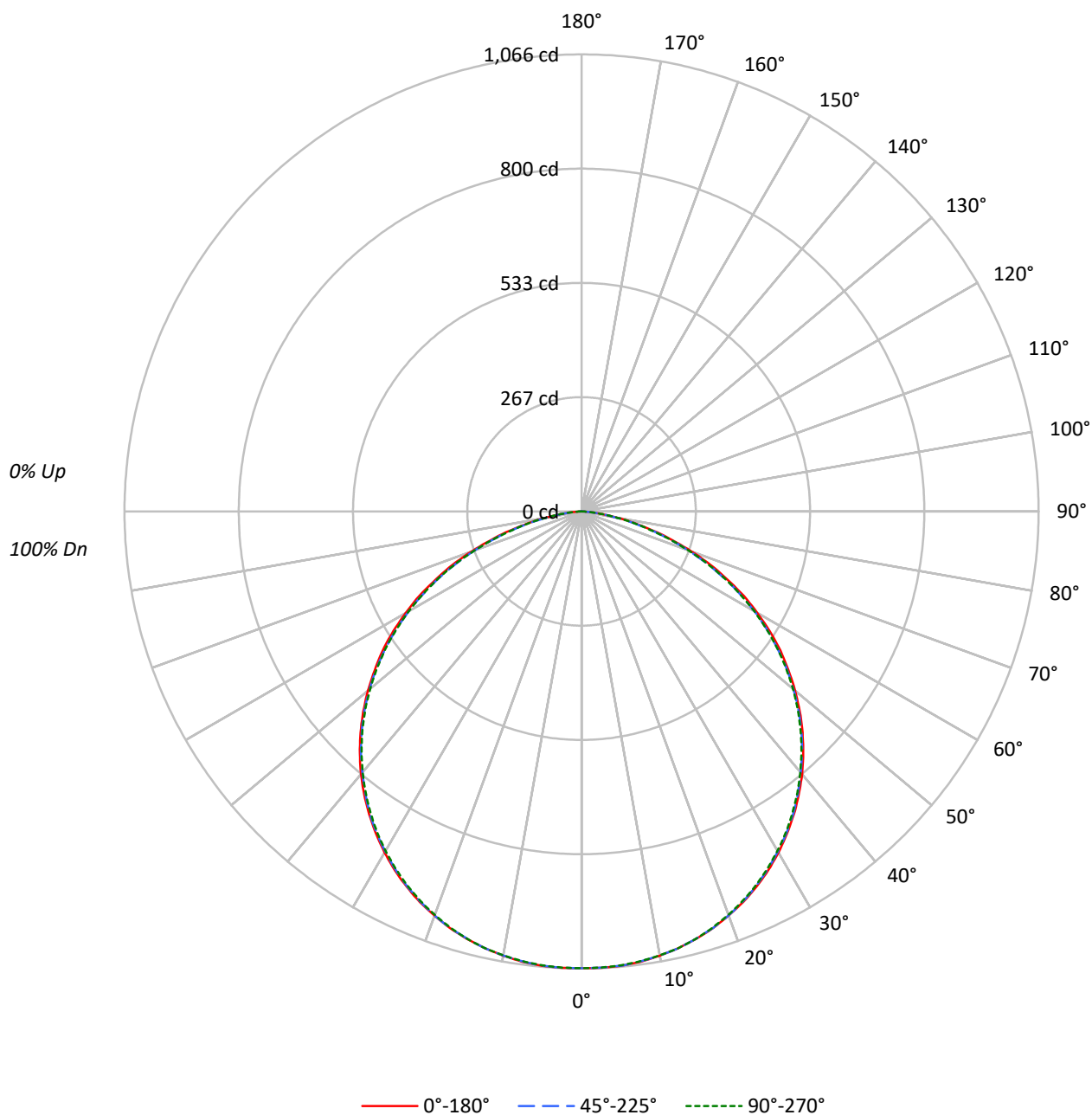
Lumens per Lamp: N/A
Luminaire Lumens: 3011.5 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P975023

CATALOG NUMBER: FLR2-24-30HE-L850-CA080

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	1435
10°	1437	1437	1436
15°	1438	1437	1437
20°	1436	1436	1434
25°	1434	1431	1429
30°	1427	1423	1420
35°	1418	1414	1409
40°	1405	1397	1395
45°	1387	1379	1375
50°	1361	1351	1347
55°	1329	1310	1308
60°	1274	1251	1251
65°	1192	1164	1167
70°	1072	1039	1036
75°	900	865	860
80°	658	625	652
85°	372	343	349

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1387 cd/sqm

TEST NUMBER: P975023
CATALOG NUMBER: FLR2-24-30HE-L850-CA080

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	3.4
10°-20°	291.4	9.7
20°-30°	444.2	14.8
30°-40°	538.2	17.9
40°-50°	559.1	18.6
50°-60°	500.1	16.6
60°-70°	364.5	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°	836.7	27.8
0°-40°	1375.0	45.7
0°-60°	2434.2	80.8
0°-90°	3011.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3011.5	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	291
25°	966	965	964	963	962	445
35°	863	862	861	859	858	540
45°	729	728	725	723	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	

TEST NUMBER: P975023

CATALOG NUMBER: FLR2-24-30HE-L850-CA080

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1065.5	1065.5	1065.5	1065.5	1065.5
2.5°	1065.5	1065.1	1065.1	1065.5	1064.8
5°	1063.6	1064.0	1063.6	1063.6	1062.8
7.5°	1059.4	1059.0	1058.6	1059.0	1057.9
10°	1052.1	1052.1	1051.8	1052.1	1051.4
12.5°	1043.3	1043.3	1043.3	1043.7	1043.3
15°	1032.3	1031.9	1031.9	1032.6	1031.9
17.5°	1019.3	1018.9	1018.9	1018.5	1017.7
20°	1003.2	1003.2	1002.8	1002.4	1001.3
22.5°	986.0	985.6	984.5	984.5	982.9
25°	965.7	964.6	963.8	963.4	962.3
27.5°	943.6	942.0	940.9	940.1	939.0
30°	918.7	917.2	916.0	914.9	914.1
32.5°	891.9	891.2	889.3	888.9	887.4
35°	863.3	862.1	861.0	859.4	857.9
37.5°	832.7	831.5	828.9	828.1	827.0
40°	800.2	798.7	795.2	795.2	794.1
42.5°	765.4	763.9	761.6	760.0	759.3
45°	729.1	727.5	724.9	723.3	722.6
47.5°	690.5	689.3	686.3	685.1	684.0
50°	650.3	648.8	645.4	644.6	643.4
52.5°	608.3	607.5	602.9	602.5	601.4
55°	566.6	562.4	558.6	558.6	557.8
57.5°	520.7	517.7	512.7	512.7	511.9
60°	473.3	470.6	464.9	465.7	464.9
62.5°	427.0	421.3	416.0	418.3	416.3
65°	374.3	371.2	365.5	367.0	366.6
67.5°	326.1	320.4	315.0	318.1	316.6
70°	272.6	269.5	264.2	267.2	263.4
72.5°	222.1	219.4	214.1	217.5	213.7
75°	173.2	170.5	166.3	169.4	165.5
77.5°	126.9	125.0	121.2	124.3	125.0
80°	84.9	82.6	80.7	83.3	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)