

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: P974880

Luminaire Tested: FLR2-24-30HE-L840-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974880
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-L840-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

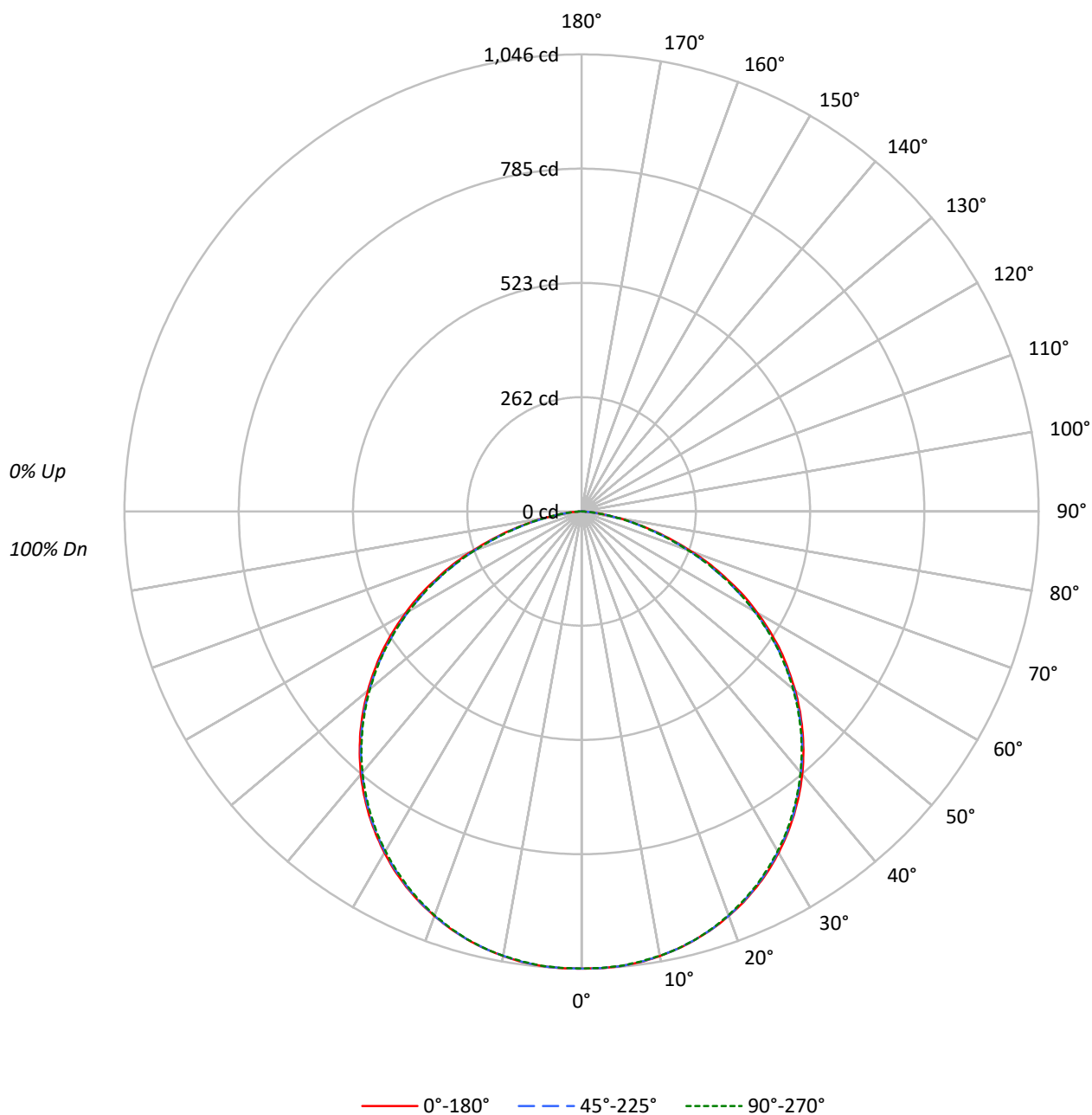
Lumens per Lamp: N/A
Luminaire Lumens: 2957.3 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	1408	1408	1408
5°	1411	1411	1410
10°	1412	1411	1411
15°	1412	1411	1411
20°	1411	1410	1408
25°	1408	1405	1403
30°	1402	1398	1395
35°	1392	1389	1384
40°	1380	1372	1370
45°	1362	1354	1350
50°	1337	1326	1323
55°	1305	1287	1285
60°	1251	1228	1228
65°	1170	1143	1146
70°	1053	1020	1018
75°	884	849	845
80°	645	614	640
85°	366	337	343

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1362 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	3.4
10°-20°	286.1	9.7
20°-30°	436.3	14.8
30°-40°	528.5	17.9
40°-50°	549.0	18.6
50°-60°	491.1	16.6
60°-70°	358.0	12.1
70°-80°	177.3	6.0
80°-90°	31.7	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°	821.7	27.8
0°-40°	1350.2	45.7
0°-60°	2390.4	80.8
0°-90°	2957.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2957.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1046	1046	1046	1046	1046	
5°	1044	1045	1044	1044	1044	99
15°	1014	1013	1013	1014	1013	286
25°	948	947	946	946	945	437
35°	848	847	846	844	842	530
45°	716	714	712	710	710	552
55°	556	552	548	548	548	496
65°	368	365	359	360	360	364
75°	170	167	163	166	163	181
85°	24	22	22	22	22	33
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1046.3	1046.3	1046.3	1046.3	1046.3
2.5°	1046.3	1046.0	1046.0	1046.3	1045.6
5°	1044.5	1044.8	1044.5	1044.5	1043.7
7.5°	1040.3	1040.0	1039.6	1040.0	1038.8
10°	1033.2	1033.2	1032.8	1033.2	1032.5
12.5°	1024.6	1024.6	1024.6	1024.9	1024.6
15°	1013.7	1013.3	1013.3	1014.1	1013.3
17.5°	1000.9	1000.5	1000.5	1000.2	999.4
20°	985.2	985.2	984.8	984.4	983.3
22.5°	968.3	967.9	966.8	966.8	965.3
25°	948.4	947.2	946.5	946.1	945.0
27.5°	926.6	925.1	924.0	923.2	922.1
30°	902.2	900.7	899.6	898.4	897.7
32.5°	875.9	875.1	873.3	872.9	871.4
35°	847.7	846.6	845.5	844.0	842.5
37.5°	817.7	816.6	814.0	813.2	812.1
40°	785.8	784.3	780.9	780.9	779.8
42.5°	751.6	750.1	747.9	746.4	745.6
45°	716.0	714.5	711.8	710.3	709.6
47.5°	678.0	676.9	673.9	672.8	671.7
50°	638.6	637.1	633.7	633.0	631.9
52.5°	597.3	596.6	592.1	591.7	590.6
55°	556.4	552.3	548.5	548.5	547.8
57.5°	511.3	508.3	503.5	503.5	502.7
60°	464.8	462.2	456.5	457.3	456.5
62.5°	419.4	413.7	408.5	410.7	408.9
65°	367.6	364.6	358.9	360.4	360.0
67.5°	320.2	314.6	309.4	312.4	310.9
70°	267.7	264.7	259.4	262.4	258.7
72.5°	218.1	215.5	210.2	213.6	209.9
75°	170.1	167.4	163.3	166.3	162.6
77.5°	124.6	122.8	119.0	122.0	122.8
80°	83.3	81.1	79.2	81.8	82.6
82.5°	48.8	47.3	46.6	46.9	48.8
85°	23.7	21.8	21.8	22.2	22.2
87.5°	6.4	5.6	6.4	6.8	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)