

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: P688295

Luminaire Tested: FLR-HA-22-L3C3 (LOW)-50-CP125

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688295
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2207-724-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR-HA-22-L3C3 (LOW)-50-CP125
Description: Fail-Safe - FLR Fully Luminous Recessed 2X2 5000K Luminaire at Low Lumen setting for High Abuse
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

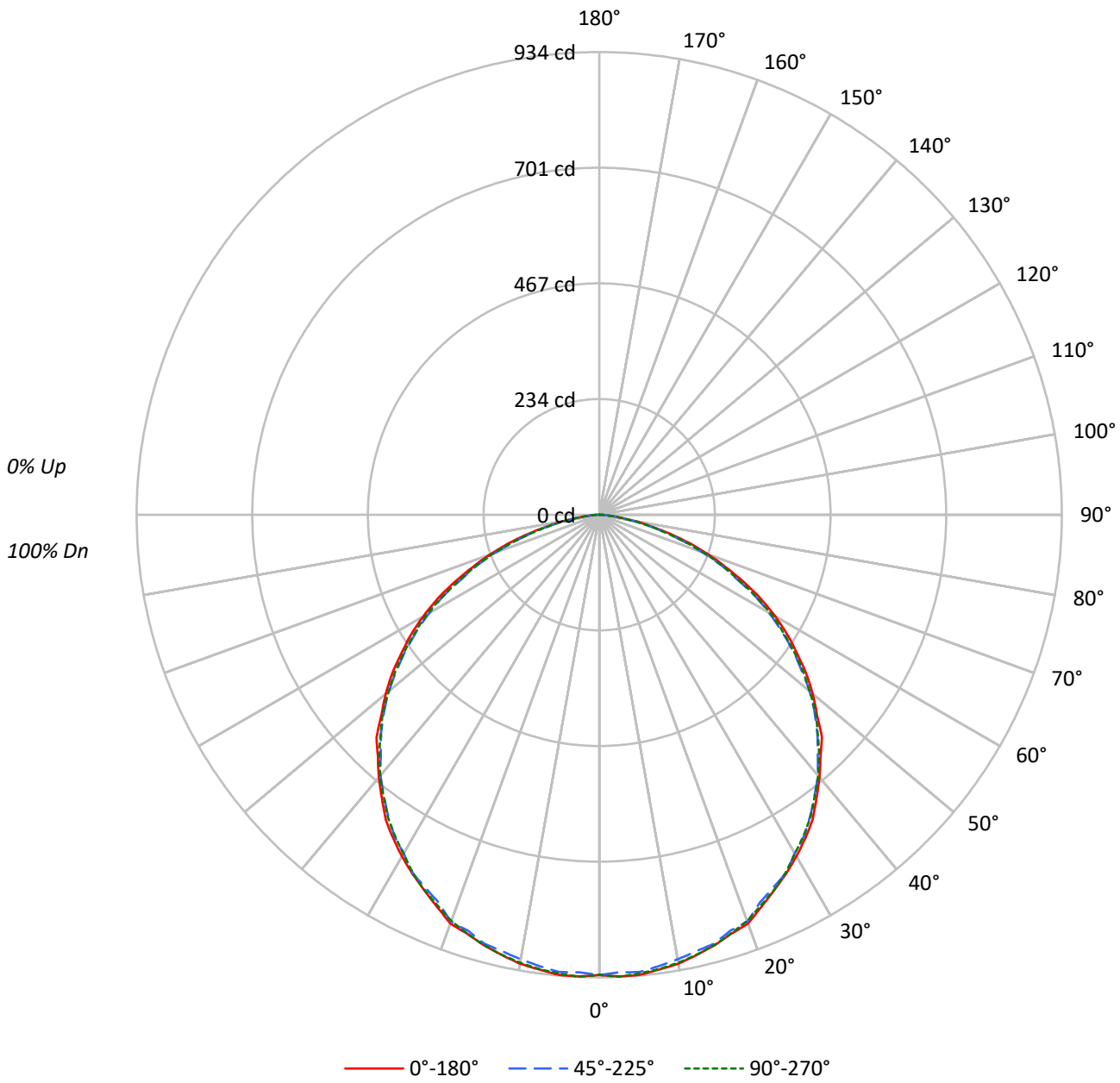
Lumens per Lamp: N/A
Luminaire Lumens: 2577.6 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
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				10	0
RW	70	50	30	10	70	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
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	45	38	33	44	38	33	43	37	33	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	29	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2500	2500	2500
5°	2519	2503	2511
10°	2515	2491	2510
15°	2506	2497	2505
20°	2515	2504	2499
25°	2483	2466	2481
30°	2475	2454	2455
35°	2468	2439	2444
40°	2432	2413	2416
45°	2420	2370	2374
50°	2355	2322	2322
55°	2285	2235	2248
60°	2205	2129	2158
65°	2054	1948	1967
70°	1841	1737	1764
75°	1517	1425	1420
80°	1062	1001	1001
85°	574	513	513

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2420 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.1	3.4
10°-20°	252.8	9.8
20°-30°	384.3	14.9
30°-40°	464.8	18.0
40°-50°	481.2	18.7
50°-60°	427.5	16.6
60°-70°	307.2	11.9
70°-80°	146.9	5.7
80°-90°	24.7	1.0
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°	725.3	28.1
0°-40°	1190.1	46.2
0°-60°	2098.8	81.4
0°-90°	2577.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2577.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	929	929	929	929	929	
5°	932	926	927	928	930	89
15°	900	894	896	894	899	254
25°	836	832	831	834	836	386
35°	751	746	743	742	744	468
45°	636	627	623	621	624	487
55°	487	482	476	473	479	436
65°	323	319	306	298	309	319
75°	146	143	137	125	137	157
85°	19	18	17	16	17	26
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	929.1	929.1	929.1	929.1	929.1
2.5°	933.0	926.2	924.7	933.5	933.5
5°	932.5	926.2	926.7	927.7	929.6
7.5°	926.2	922.8	919.3	922.8	925.2
10°	920.3	912.5	911.5	913.0	918.4
12.5°	910.5	901.7	902.7	905.1	910.0
15°	899.7	893.9	896.3	894.4	899.3
17.5°	887.0	887.0	880.7	879.2	886.5
20°	878.2	866.0	874.3	867.0	872.8
22.5°	856.2	849.3	847.4	853.2	853.2
25°	836.1	831.7	830.7	834.2	835.6
27.5°	817.0	814.6	815.6	815.1	815.1
30°	796.5	790.1	789.6	789.6	790.1
32.5°	774.4	770.0	769.5	766.6	768.1
35°	751.4	746.5	742.6	741.6	744.1
37.5°	720.6	714.7	714.2	715.2	715.2
40°	692.2	685.8	686.8	683.4	687.8
42.5°	661.3	656.0	652.5	651.6	656.9
45°	635.9	626.6	622.7	620.7	623.7
47.5°	595.8	593.3	589.4	586.0	592.8
50°	562.5	563.9	554.6	551.2	554.6
52.5°	527.2	520.9	514.5	508.6	518.4
55°	487.1	482.2	476.3	473.4	479.2
57.5°	450.4	445.0	436.2	429.3	439.6
60°	409.7	404.8	395.5	388.2	400.9
62.5°	368.1	362.7	353.9	342.2	355.4
65°	322.6	319.2	306.0	298.1	308.9
67.5°	276.6	274.6	266.8	253.6	269.2
70°	234.0	230.1	220.8	209.0	224.2
72.5°	191.9	185.0	178.2	166.9	179.7
75°	145.9	143.4	137.1	125.3	136.6
77.5°	105.7	103.3	98.9	90.1	98.9
80°	68.5	68.0	64.6	58.3	64.6
82.5°	39.2	39.2	36.7	34.3	36.7
85°	18.6	17.6	16.6	15.7	16.6
87.5°	4.9	4.9	4.9	4.9	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)