

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: P688383

Luminaire Tested: FLR-HA-22-L3C3 (LOW)-35-CA125

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688383  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-938-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR-HA-22-L3C3 (LOW)-35-CA125  
Description: Fail-Safe - FLR Fully Luminous Recessed 2X2 3500K Luminaire at Low Lumen setting for High Abuse  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

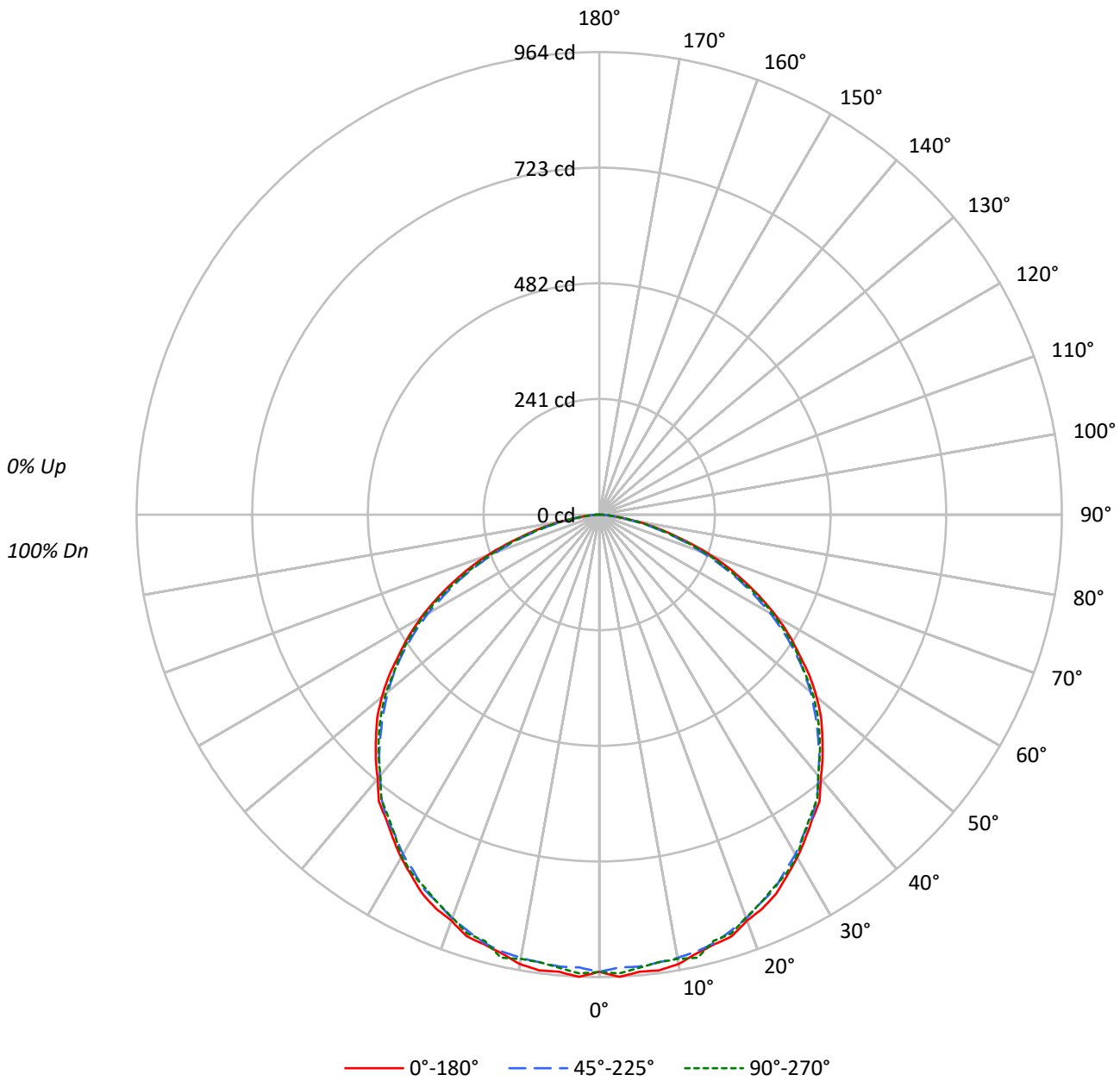
Lumens per Lamp: N/A  
Luminaire Lumens: 2678.2 lumens  
Efficiency: N/A  
Efficacy: 121.7 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 22  
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	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	91	85	79	97	90	83	78	86	81	76	83	79	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2565	2565	2565
5°	2584	2554	2562
10°	2599	2564	2569
15°	2583	2575	2563
20°	2578	2565	2560
25°	2589	2561	2549
30°	2565	2541	2557
35°	2544	2538	2520
40°	2523	2496	2492
45°	2503	2450	2471
50°	2475	2405	2431
55°	2388	2334	2361
60°	2302	2215	2264
65°	2152	2032	2082
70°	1944	1785	1865
75°	1590	1455	1504
80°	1139	1021	1065
85°	624	534	550

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2503 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.4	3.4
10°-20°	260.5	9.7
20°-30°	396.4	14.8
30°-40°	480.7	17.9
40°-50°	499.8	18.7
50°-60°	446.7	16.7
60°-70°	322.0	12.0
70°-80°	155.2	5.8
80°-90°	26.6	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°	747.3	27.9
0°-40°	1228.0	45.9
0°-60°	2174.4	81.2
0°-90°	2678.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2678.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	953	953	953	953	953	
5°	957	948	946	950	948	91
15°	927	921	924	919	920	262
25°	872	858	862	858	858	401
35°	774	766	772	768	767	486
45°	658	649	644	647	649	508
55°	509	502	498	496	503	456
65°	338	330	319	322	327	335
75°	153	148	140	141	145	165
85°	20	19	17	18	18	28
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	953.2	953.2	953.2	953.2	953.2
2.5°	964.3	956.6	944.6	950.4	957.1
5°	956.6	948.4	945.6	950.4	948.4
7.5°	958.1	945.6	941.7	947.0	941.2
10°	951.3	940.3	938.3	940.8	940.3
12.5°	936.9	934.5	933.1	929.2	946.0
15°	927.3	920.6	924.4	918.6	920.1
17.5°	921.0	905.2	910.0	909.0	915.3
20°	900.4	896.5	895.6	892.7	894.1
22.5°	888.8	879.7	876.8	875.9	876.8
25°	872.0	858.5	862.4	858.1	858.5
27.5°	848.0	833.1	837.9	837.4	844.1
30°	825.4	814.3	817.7	814.8	823.0
32.5°	799.9	790.3	791.7	791.2	792.2
35°	774.4	765.8	772.5	767.7	767.2
37.5°	753.8	736.4	745.6	740.3	746.1
40°	718.2	711.5	710.5	707.1	709.5
42.5°	688.9	680.2	678.8	680.7	680.7
45°	657.6	649.0	643.7	646.6	649.4
47.5°	627.3	616.3	609.5	611.0	616.8
50°	591.3	576.9	574.4	576.4	580.7
52.5°	552.3	540.8	537.4	537.0	538.9
55°	509.1	502.3	497.5	496.1	503.3
57.5°	470.1	460.0	454.3	456.7	463.4
60°	427.8	416.8	411.5	413.4	420.6
62.5°	383.6	372.6	364.4	368.2	376.4
65°	337.9	329.8	319.2	321.6	326.9
67.5°	293.7	284.6	273.5	275.0	280.7
70°	247.1	237.5	226.9	229.3	237.0
72.5°	198.1	191.8	182.2	183.2	189.9
75°	152.9	148.5	139.9	141.3	144.7
77.5°	113.4	107.7	100.9	102.4	106.7
80°	73.5	71.6	65.9	66.8	68.7
82.5°	41.8	41.8	39.4	38.5	40.9
85°	20.2	18.7	17.3	17.8	17.8
87.5°	4.8	5.3	4.8	4.3	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)