

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: P688293

Luminaire Tested: FLR-HA-22-L3C3 (LOW)-35-CP125

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688293
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)-35-CP125
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

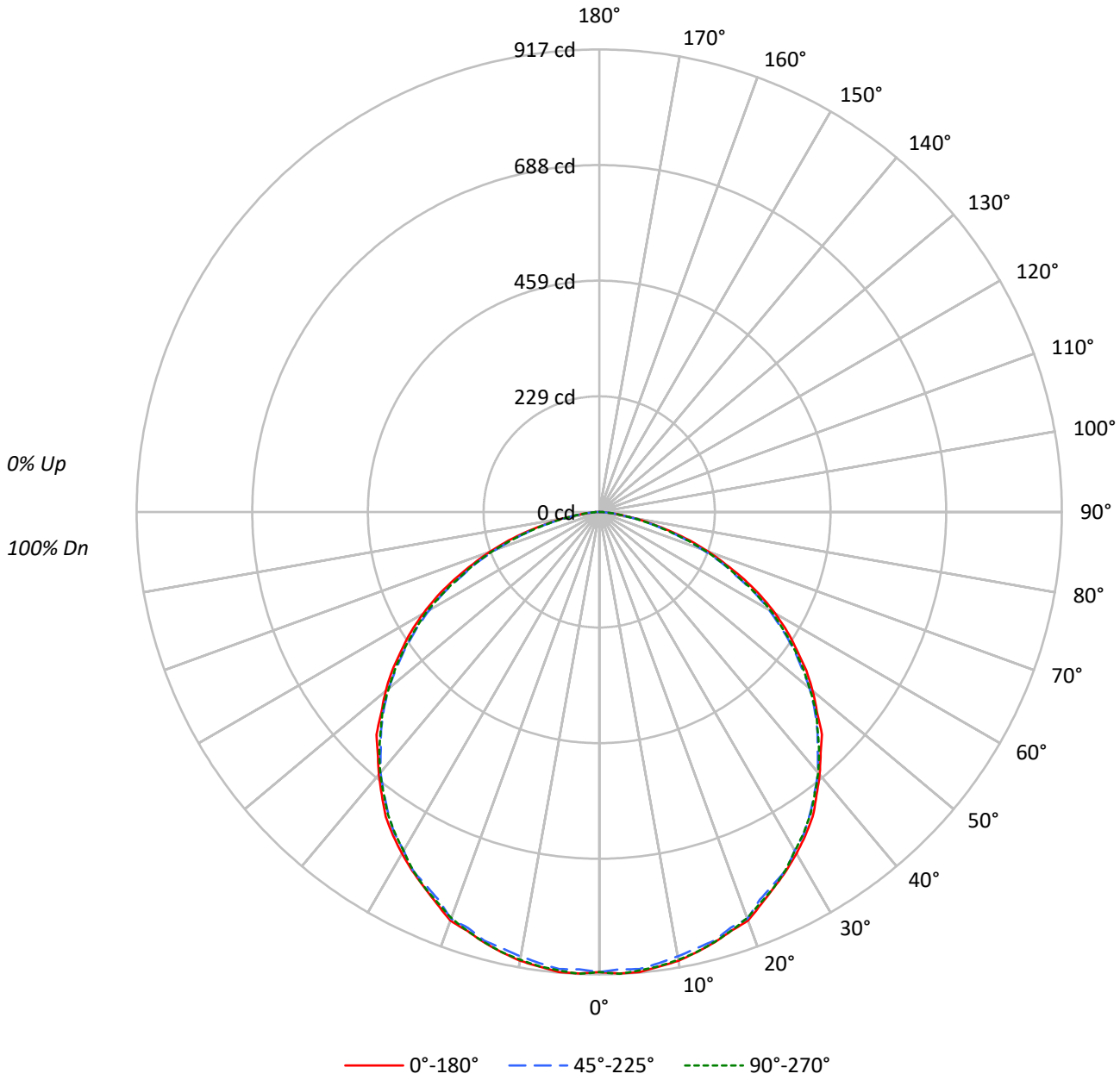
Lumens per Lamp: N/A
Luminaire Lumens: 2531.1 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	2455	2455	2455
5°	2474	2458	2466
10°	2469	2446	2464
15°	2461	2452	2460
20°	2470	2458	2454
25°	2438	2422	2436
30°	2430	2409	2411
35°	2424	2395	2400
40°	2388	2369	2373
45°	2376	2327	2331
50°	2312	2280	2280
55°	2244	2194	2208
60°	2165	2090	2119
65°	2017	1913	1931
70°	1808	1706	1733
75°	1489	1399	1394
80°	1043	984	984
85°	565	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2376 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.5	3.4
10°-20°	248.3	9.8
20°-30°	377.4	14.9
30°-40°	456.4	18.0
40°-50°	472.5	18.7
50°-60°	419.8	16.6
60°-70°	301.6	11.9
70°-80°	144.2	5.7
80°-90°	24.3	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°	712.2	28.1
0°-40°	1168.6	46.2
0°-60°	2060.9	81.4
0°-90°	2531.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2531.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	912	912	912	912	912	
5°	916	910	910	911	913	87
15°	884	878	880	878	883	250
25°	821	817	816	819	820	379
35°	738	733	729	728	731	460
45°	624	615	611	610	612	478
55°	478	474	468	465	471	428
65°	317	313	300	293	303	313
75°	143	141	135	123	134	154
85°	18	17	16	15	16	26
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	912.3	912.3	912.3	912.3	912.3
2.5°	916.2	909.5	908.0	916.7	916.7
5°	915.7	909.5	909.9	910.9	912.8
7.5°	909.5	906.1	902.7	906.1	908.5
10°	903.7	896.0	895.0	896.5	901.8
12.5°	894.1	885.4	886.4	888.8	893.6
15°	883.5	877.7	880.1	878.2	883.0
17.5°	871.0	871.0	864.8	863.3	870.5
20°	862.4	850.3	858.5	851.3	857.1
22.5°	840.7	834.0	832.1	837.8	837.8
25°	821.0	816.7	815.7	819.1	820.5
27.5°	802.3	799.9	800.8	800.3	800.3
30°	782.1	775.8	775.4	775.4	775.8
32.5°	760.5	756.1	755.6	752.8	754.2
35°	737.9	733.1	729.2	728.2	730.6
37.5°	707.6	701.8	701.3	702.3	702.3
40°	679.7	673.4	674.4	671.0	675.4
42.5°	649.4	644.1	640.8	639.8	645.1
45°	624.4	615.3	611.4	609.5	612.4
47.5°	585.0	582.6	578.8	575.4	582.1
50°	552.3	553.8	544.6	541.3	544.6
52.5°	517.7	511.5	505.2	499.4	509.1
55°	478.3	473.5	467.7	464.8	470.6
57.5°	442.2	436.9	428.3	421.6	431.7
60°	402.3	397.5	388.4	381.2	393.7
62.5°	361.5	356.2	347.5	336.0	349.0
65°	316.8	313.4	300.4	292.7	303.3
67.5°	271.6	269.7	262.0	249.0	264.4
70°	229.8	225.9	216.8	205.3	220.2
72.5°	188.4	181.7	175.0	163.9	176.4
75°	143.2	140.8	134.6	123.1	134.1
77.5°	103.8	101.4	97.1	88.4	97.1
80°	67.3	66.8	63.5	57.2	63.5
82.5°	38.5	38.5	36.1	33.6	36.1
85°	18.3	17.3	16.3	15.4	16.3
87.5°	4.8	4.8	4.8	4.8	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)