

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: P688294

Luminaire Tested: FLR-HA-22-L3C3 (LOW)-40-CP125

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688294
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)-40-CP125
Description: Fail-Safe - FLR Fully Luminous Recessed 2X2 4000K Luminaire at Low Lumen setting for High Abuse
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

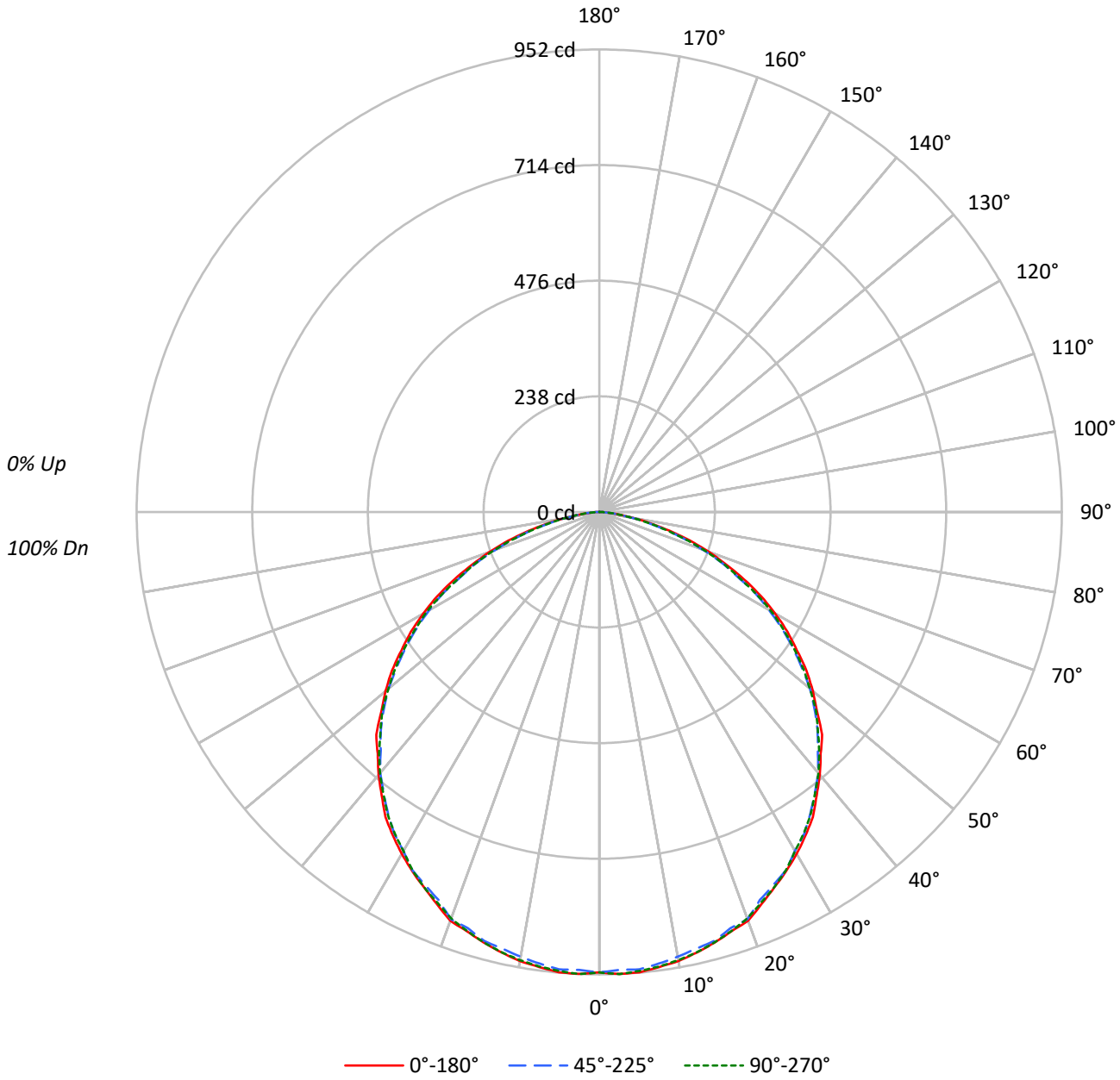
Lumens per Lamp: N/A
Luminaire Lumens: 2629.7 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.3
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°	2551	2551	2551
5°	2570	2554	2562
10°	2566	2541	2560
15°	2557	2547	2556
20°	2566	2554	2550
25°	2533	2516	2531
30°	2525	2503	2505
35°	2518	2489	2494
40°	2481	2461	2465
45°	2469	2418	2422
50°	2402	2369	2369
55°	2331	2280	2294
60°	2250	2172	2201
65°	2096	1987	2006
70°	1878	1772	1799
75°	1547	1454	1448
80°	1083	1021	1021
85°	587	525	525

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2469 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.9	3.4
10°-20°	258.0	9.8
20°-30°	392.1	14.9
30°-40°	474.2	18.0
40°-50°	490.9	18.7
50°-60°	436.1	16.6
60°-70°	313.4	11.9
70°-80°	149.8	5.7
80°-90°	25.3	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°	739.9	28.1
0°-40°	1214.2	46.2
0°-60°	2141.2	81.4
0°-90°	2629.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2629.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	951	945	945	946	948	90
15°	918	912	914	912	917	259
25°	853	848	848	851	852	394
35°	767	762	758	757	759	478
45°	649	639	635	633	636	496
55°	497	492	486	483	489	445
65°	329	326	312	304	315	325
75°	149	146	140	128	139	160
85°	19	18	17	16	17	27
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	947.9	947.9	947.9	947.9	947.9
2.5°	951.9	944.9	943.4	952.4	952.4
5°	951.4	944.9	945.4	946.4	948.4
7.5°	944.9	941.4	937.9	941.4	943.9
10°	938.9	930.9	929.9	931.4	936.9
12.5°	928.9	919.9	920.9	923.4	928.4
15°	917.9	911.9	914.4	912.4	917.4
17.5°	905.0	905.0	898.5	897.0	904.5
20°	896.0	883.5	892.0	884.5	890.5
22.5°	873.5	866.5	864.5	870.5	870.5
25°	853.0	848.5	847.5	851.0	852.5
27.5°	833.5	831.0	832.0	831.5	831.5
30°	812.6	806.1	805.6	805.6	806.1
32.5°	790.1	785.6	785.1	782.1	783.6
35°	766.6	761.6	757.6	756.6	759.1
37.5°	735.1	729.2	728.7	729.7	729.7
40°	706.2	699.7	700.7	697.2	701.7
42.5°	674.7	669.2	665.7	664.7	670.2
45°	648.7	639.3	635.3	633.3	636.3
47.5°	607.8	605.3	601.3	597.8	604.8
50°	573.8	575.3	565.8	562.3	565.8
52.5°	537.9	531.4	524.9	518.9	528.9
55°	496.9	491.9	485.9	482.9	488.9
57.5°	459.5	454.0	445.0	438.0	448.5
60°	418.0	413.0	403.5	396.0	409.0
62.5°	375.6	370.1	361.1	349.1	362.6
65°	329.1	325.6	312.1	304.1	315.1
67.5°	282.2	280.2	272.2	258.7	274.7
70°	238.7	234.7	225.2	213.3	228.7
72.5°	195.8	188.8	181.8	170.3	183.3
75°	148.8	146.3	139.8	127.9	139.3
77.5°	107.9	105.4	100.9	91.9	100.9
80°	69.9	69.4	65.9	59.4	65.9
82.5°	40.0	40.0	37.5	35.0	37.5
85°	19.0	18.0	17.0	16.0	17.0
87.5°	5.0	5.0	5.0	5.0	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)