

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: P688307

Luminaire Tested: FLR-HA-24-L3C3 (HI)-50-CP125

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688307  
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-24-L3C3 (HI)-50-CP125  
Description: Fail-Safe - FLR Fully Luminous Recessed 2X4 5000K Luminaire at High Lumen setting for High Abuse  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: -

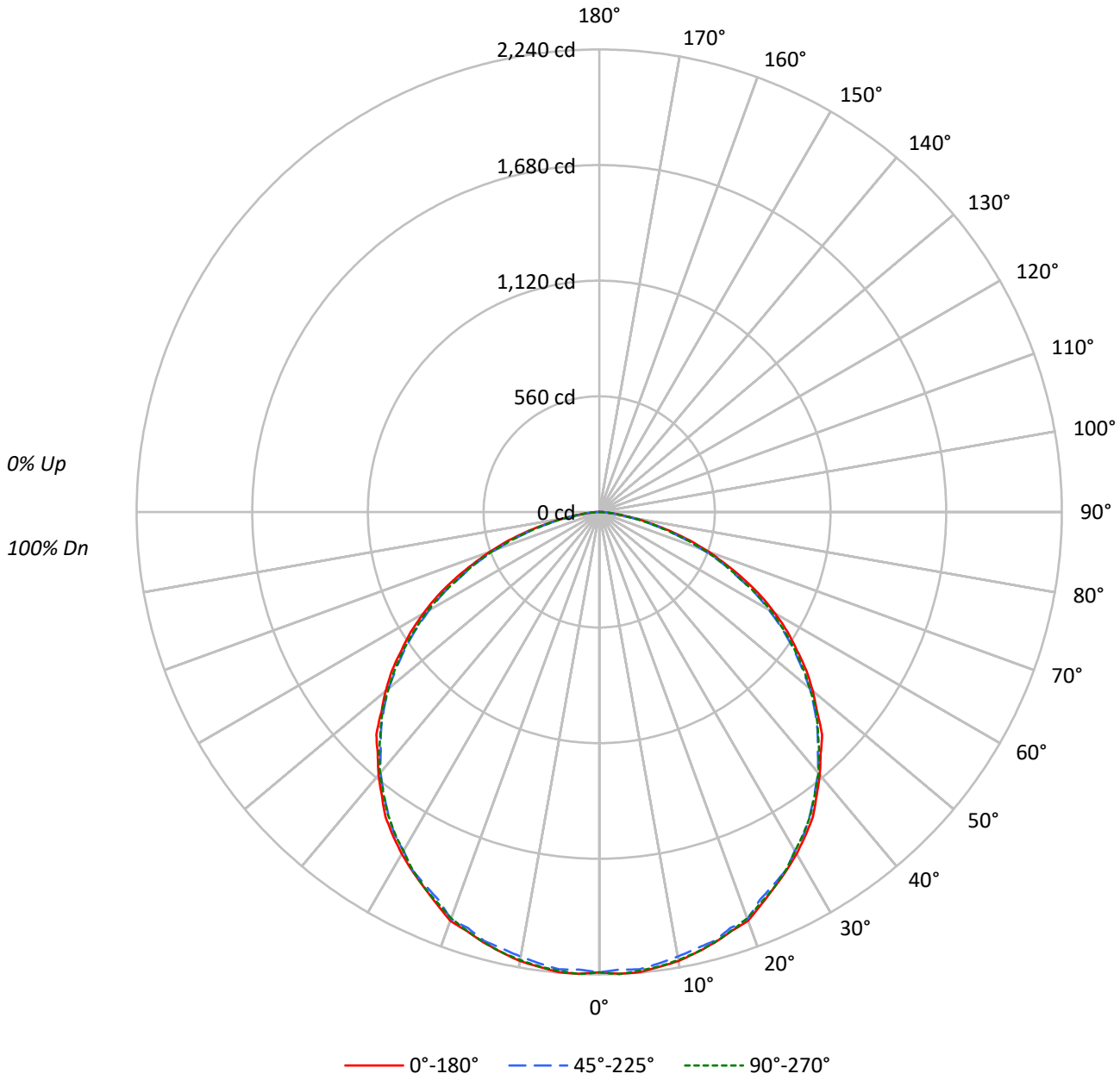
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6186.2 lumens  
Efficiency: N/A  
Efficacy: 117.2 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 52.8  
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°	3000	3000	3000
5°	3023	3004	3013
10°	3018	2989	3011
15°	3008	2997	3006
20°	3018	3004	2999
25°	2979	2960	2977
30°	2970	2944	2946
35°	2962	2927	2933
40°	2918	2895	2899
45°	2904	2844	2848
50°	2826	2786	2786
55°	2742	2681	2698
60°	2646	2555	2589
65°	2465	2338	2360
70°	2209	2085	2117
75°	1820	1710	1704
80°	1275	1202	1202
85°	689	616	616

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2904 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.5	3.4
10°-20°	606.8	9.8
20°-30°	922.4	14.9
30°-40°	1115.6	18.0
40°-50°	1154.8	18.7
50°-60°	1026.0	16.6
60°-70°	737.2	11.9
70°-80°	352.5	5.7
80°-90°	59.4	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°	1740.7	28.1
0°-40°	2856.3	46.2
0°-60°	5037.2	81.4
0°-90°	6186.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6186.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2230	2230	2230	2230	2230	
5°	2238	2223	2224	2226	2231	212
15°	2159	2145	2151	2146	2158	610
25°	2007	1996	1994	2002	2006	927
35°	1803	1792	1782	1780	1786	1124
45°	1526	1504	1494	1490	1497	1168
55°	1169	1157	1143	1136	1150	1047
65°	774	766	734	716	741	765
75°	350	344	329	301	328	376
85°	45	42	40	38	40	63
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2229.9	2229.9	2229.9	2229.9	2229.9
2.5°	2239.3	2222.8	2219.3	2240.5	2240.5
5°	2238.1	2222.8	2224.0	2226.4	2231.1
7.5°	2222.8	2214.6	2206.4	2214.6	2220.5
10°	2208.7	2189.9	2187.6	2191.1	2204.0
12.5°	2185.2	2164.1	2166.4	2172.3	2184.1
15°	2159.4	2145.3	2151.2	2146.5	2158.2
17.5°	2128.9	2128.9	2113.6	2110.1	2127.7
20°	2107.7	2078.3	2098.3	2080.7	2094.8
22.5°	2054.8	2038.4	2033.7	2047.8	2047.8
25°	2006.7	1996.1	1993.7	2002.0	2005.5
27.5°	1960.8	1955.0	1957.3	1956.1	1956.1
30°	1911.5	1896.2	1895.1	1895.1	1896.2
32.5°	1858.6	1848.1	1846.9	1839.8	1843.4
35°	1803.4	1791.7	1782.3	1779.9	1785.8
37.5°	1729.4	1715.3	1714.1	1716.5	1716.5
40°	1661.3	1646.0	1648.3	1640.1	1650.7
42.5°	1587.2	1574.3	1566.1	1563.7	1576.7
45°	1526.1	1503.8	1494.4	1489.7	1496.8
47.5°	1429.8	1423.9	1414.5	1406.3	1422.8
50°	1349.9	1353.4	1331.1	1322.9	1331.1
52.5°	1265.3	1250.1	1234.8	1220.7	1244.2
55°	1169.0	1157.2	1143.1	1136.1	1150.2
57.5°	1080.9	1067.9	1046.8	1030.4	1055.0
60°	983.4	971.6	949.3	931.7	962.2
62.5°	883.5	870.6	849.4	821.2	853.0
65°	774.2	766.0	734.3	715.5	741.3
67.5°	663.8	659.1	640.3	608.6	646.2
70°	561.6	552.2	529.9	501.7	538.1
72.5°	460.5	444.1	427.6	400.6	431.2
75°	350.1	344.2	329.0	300.8	327.8
77.5°	253.8	247.9	237.3	216.2	237.3
80°	164.5	163.3	155.1	139.8	155.1
82.5°	94.0	94.0	88.1	82.2	88.1
85°	44.6	42.3	39.9	37.6	39.9
87.5°	11.7	11.7	11.7	11.7	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)