

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: P688395

Luminaire Tested: FLR-HA-24-L3C3 (HI)-35-CA125

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688395
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-24-L3C3 (HI)-35-CA125
Description: Fail-Safe - FLR Fully Luminous Recessed 2X4 3500K Luminaire at High Lumen setting for High Abuse
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

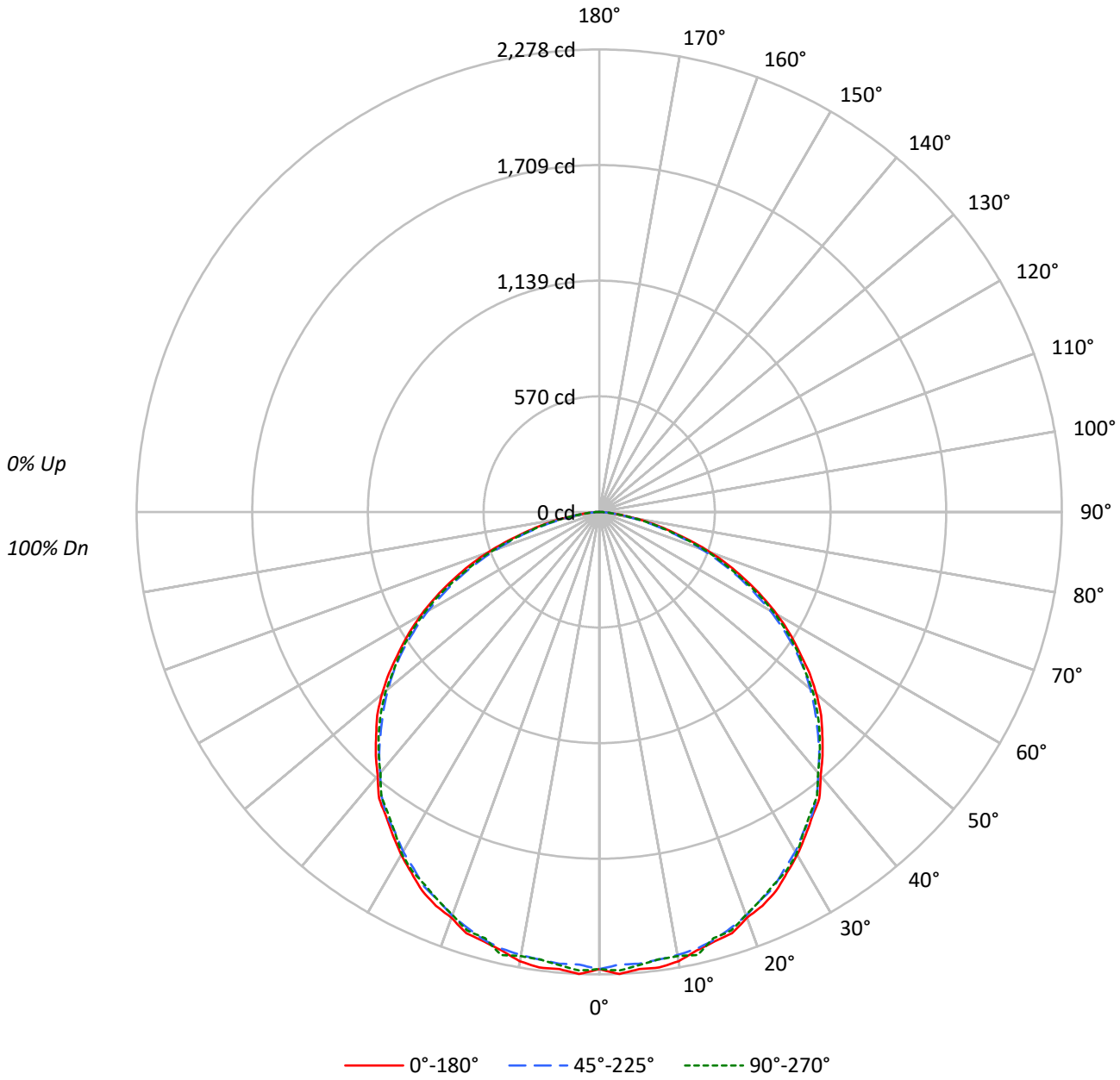
Lumens per Lamp: N/A
Luminaire Lumens: 6327.2 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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°	3030	3030	3030
5°	3052	3017	3026
10°	3071	3029	3035
15°	3052	3042	3028
20°	3046	3029	3025
25°	3058	3025	3011
30°	3030	3001	3021
35°	3005	2998	2977
40°	2980	2948	2944
45°	2956	2894	2919
50°	2924	2841	2872
55°	2821	2757	2789
60°	2720	2616	2674
65°	2542	2401	2459
70°	2296	2109	2203
75°	1877	1718	1777
80°	1347	1206	1258
85°	736	631	648

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2956 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.5	3.4
10°-20°	615.4	9.7
20°-30°	936.6	14.8
30°-40°	1135.6	17.9
40°-50°	1180.7	18.7
50°-60°	1055.2	16.7
60°-70°	760.8	12.0
70°-80°	366.6	5.8
80°-90°	62.7	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°	1765.5	27.9
0°-40°	2901.2	45.9
0°-60°	5137.1	81.2
0°-90°	6327.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6327.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2252	2252	2252	2252	2252	
5°	2260	2241	2234	2245	2241	216
15°	2191	2175	2184	2170	2174	620
25°	2060	2028	2037	2027	2028	947
35°	1830	1809	1825	1814	1812	1147
45°	1554	1533	1521	1528	1534	1199
55°	1203	1187	1175	1172	1189	1078
65°	798	779	754	760	772	790
75°	361	351	330	334	342	389
85°	48	44	41	42	42	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2252.1	2252.1	2252.1	2252.1	2252.1
2.5°	2278.2	2260.0	2231.6	2245.2	2261.1
5°	2260.0	2240.7	2233.9	2245.2	2240.7
7.5°	2263.4	2233.9	2224.8	2237.3	2223.7
10°	2247.5	2221.4	2216.8	2222.5	2221.4
12.5°	2213.4	2207.8	2204.4	2195.3	2235.0
15°	2190.7	2174.8	2183.9	2170.3	2173.7
17.5°	2176.0	2138.5	2149.8	2147.6	2162.3
20°	2127.1	2118.0	2115.8	2109.0	2112.4
22.5°	2099.9	2078.3	2071.5	2069.2	2071.5
25°	2060.1	2028.3	2037.4	2027.2	2028.3
27.5°	2003.3	1968.1	1979.5	1978.4	1994.3
30°	1950.0	1923.8	1931.8	1925.0	1944.3
32.5°	1889.8	1867.1	1870.5	1869.3	1871.6
35°	1829.6	1809.1	1825.0	1813.7	1812.5
37.5°	1780.7	1739.9	1761.4	1748.9	1762.6
40°	1696.7	1680.8	1678.5	1670.6	1676.3
42.5°	1627.4	1607.0	1603.6	1608.1	1608.1
45°	1553.6	1533.2	1520.7	1527.5	1534.3
47.5°	1482.1	1455.9	1440.0	1443.4	1457.1
50°	1396.9	1362.8	1357.1	1361.7	1371.9
52.5°	1304.9	1277.6	1269.7	1268.6	1273.1
55°	1202.7	1186.8	1175.4	1172.0	1189.1
57.5°	1110.7	1086.8	1073.2	1078.9	1094.8
60°	1010.8	984.6	972.1	976.7	993.7
62.5°	906.3	880.2	860.8	869.9	889.2
65°	798.4	779.1	754.1	759.8	772.3
67.5°	693.9	672.3	646.2	649.6	663.2
70°	583.7	561.0	536.0	541.7	559.9
72.5°	467.9	453.1	430.4	432.7	448.6
75°	361.1	350.9	330.5	333.9	341.8
77.5°	268.0	254.4	238.5	241.9	252.1
80°	173.8	169.2	155.6	157.9	162.4
82.5°	98.8	98.8	93.1	90.9	96.5
85°	47.7	44.3	40.9	42.0	42.0
87.5°	11.4	12.5	11.4	10.2	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)