

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: P688306

Luminaire Tested: FLR-HA-24-L3C3 (HI)-40-CP125

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688306
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)-40-CP125
Description: Fail-Safe - FLR Fully Luminous Recessed 2X4 4000K Luminaire at High Lumen setting for High Abuse
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

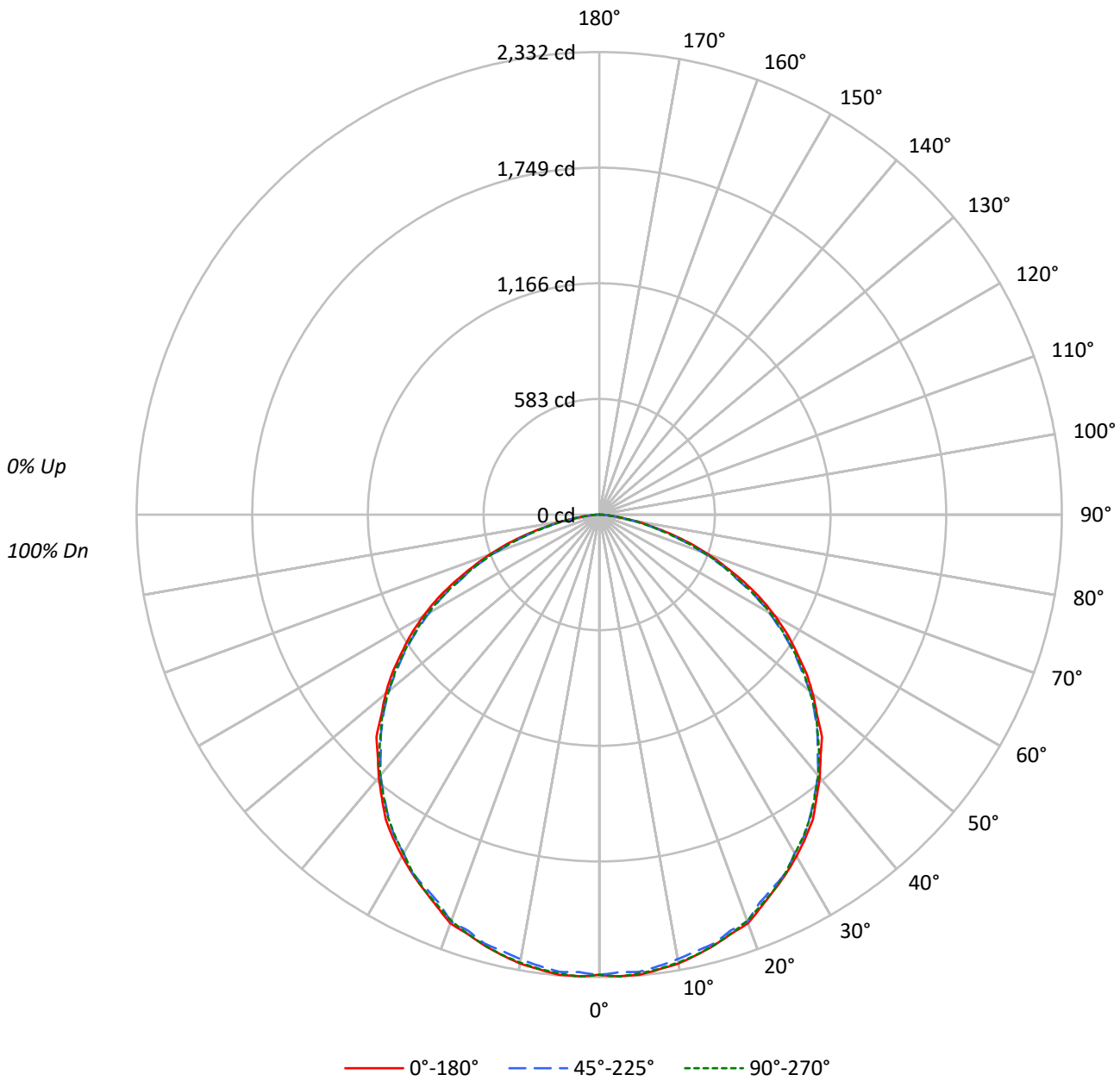
Lumens per Lamp: N/A
Luminaire Lumens: 6437.5 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 50.7
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



TEST NUMBER: P688306
CATALOG NUMBER: FLR-HA-24-L3C3 (HI)-40-CP125

Luminous Intensity Polar Plot



TEST NUMBER: P688306
 CATALOG NUMBER: FLR-HA-24-L3C3 (HI)-40-CP125

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°	3122	3122	3122
5°	3146	3126	3136
10°	3140	3110	3134
15°	3130	3118	3128
20°	3140	3126	3121
25°	3100	3080	3098
30°	3090	3064	3066
35°	3083	3046	3052
40°	3036	3013	3017
45°	3022	2959	2964
50°	2940	2900	2900
55°	2854	2791	2808
60°	2754	2658	2694
65°	2565	2433	2456
70°	2299	2169	2203
75°	1894	1779	1773
80°	1327	1251	1251
85°	718	642	642

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3022 cd/sqm

TEST NUMBER: P688306
 CATALOG NUMBER: FLR-HA-24-L3C3 (HI)-40-CP125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.1	3.4
10°-20°	631.5	9.8
20°-30°	959.8	14.9
30°-40°	1160.9	18.0
40°-50°	1201.7	18.7
50°-60°	1067.7	16.6
60°-70°	767.1	11.9
70°-80°	366.8	5.7
80°-90°	61.8	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°	1811.4	28.1
0°-40°	2972.3	46.2
0°-60°	5241.7	81.4
0°-90°	6437.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6437.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2320	2320	2320	2320	2320	
5°	2329	2313	2314	2317	2322	221
15°	2247	2232	2238	2234	2246	635
25°	2088	2077	2075	2083	2087	964
35°	1877	1864	1855	1852	1858	1170
45°	1588	1565	1555	1550	1558	1215
55°	1216	1204	1190	1182	1197	1089
65°	806	797	764	744	771	796
75°	364	358	342	313	341	391
85°	46	44	42	39	42	66
90°	0	0	0	0	0	

TEST NUMBER: P688306

CATALOG NUMBER: FLR-HA-24-L3C3 (HI)-40-CP125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2320.5	2320.5	2320.5	2320.5	2320.5
2.5°	2330.2	2313.1	2309.4	2331.5	2331.5
5°	2329.0	2313.1	2314.3	2316.8	2321.7
7.5°	2313.1	2304.6	2296.0	2304.6	2310.7
10°	2298.4	2278.9	2276.4	2280.1	2293.6
12.5°	2274.0	2252.0	2254.4	2260.5	2272.8
15°	2247.1	2232.4	2238.5	2233.6	2245.9
17.5°	2215.3	2215.3	2199.4	2195.7	2214.1
20°	2193.3	2162.7	2183.5	2165.2	2179.9
22.5°	2138.3	2121.2	2116.3	2131.0	2131.0
25°	2088.2	2077.2	2074.7	2083.3	2086.9
27.5°	2040.5	2034.4	2036.8	2035.6	2035.6
30°	1989.1	1973.2	1972.0	1972.0	1973.2
32.5°	1934.1	1923.1	1921.9	1914.6	1918.2
35°	1876.7	1864.4	1854.7	1852.2	1858.3
37.5°	1799.6	1785.0	1783.7	1786.2	1786.2
40°	1728.7	1712.8	1715.3	1706.7	1717.7
42.5°	1651.7	1638.3	1629.7	1627.3	1640.7
45°	1588.1	1564.9	1555.1	1550.2	1557.6
47.5°	1487.9	1481.8	1472.0	1463.4	1480.5
50°	1404.7	1408.4	1385.2	1376.6	1385.2
52.5°	1316.7	1300.8	1284.9	1270.3	1294.7
55°	1216.5	1204.2	1189.6	1182.2	1196.9
57.5°	1124.8	1111.3	1089.3	1072.2	1097.9
60°	1023.3	1011.1	987.8	969.5	1001.3
62.5°	919.4	905.9	883.9	854.6	887.6
65°	805.7	797.1	764.1	744.5	771.4
67.5°	690.8	685.9	666.3	633.3	672.4
70°	584.4	574.6	551.4	522.0	559.9
72.5°	479.3	462.1	445.0	416.9	448.7
75°	364.3	358.2	342.3	313.0	341.1
77.5°	264.1	258.0	247.0	225.0	247.0
80°	171.2	169.9	161.4	145.5	161.4
82.5°	97.8	97.8	91.7	85.6	91.7
85°	46.5	44.0	41.6	39.1	41.6
87.5°	12.2	12.2	12.2	12.2	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)