

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: P688292

Luminaire Tested: FLR-HA-22-L3C3 (HI)-50-CP125

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688292
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 (HI)-50-CP125
Description: Fail-Safe - FLR Fully Luminous Recessed 2X2 5000K Luminaire at High Lumen setting for High Abuse
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

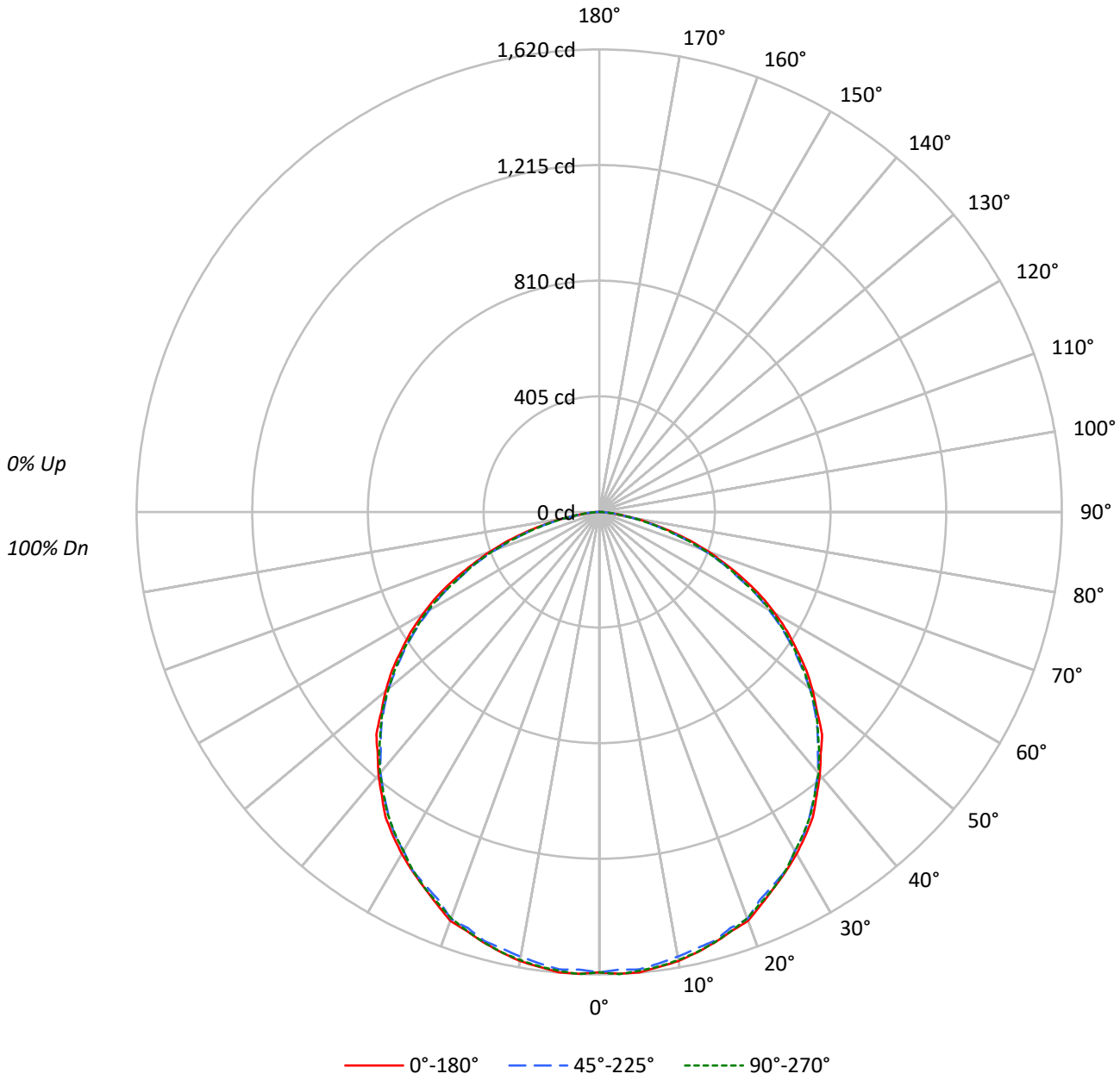
Lumens per Lamp: N/A
Luminaire Lumens: 4474.0 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 40.5
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°	4340	4340	4340
5°	4373	4345	4359
10°	4365	4323	4356
15°	4351	4334	4349
20°	4365	4346	4338
25°	4309	4281	4306
30°	4295	4259	4261
35°	4285	4234	4243
40°	4221	4188	4194
45°	4200	4113	4120
50°	4087	4030	4030
55°	3966	3879	3902
60°	3828	3695	3745
65°	3565	3382	3414
70°	3196	3015	3062
75°	2633	2473	2465
80°	1844	1739	1739
85°	997	892	892

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4200 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.0	3.4
10°-20°	438.9	9.8
20°-30°	667.1	14.9
30°-40°	806.8	18.0
40°-50°	835.2	18.7
50°-60°	742.0	16.6
60°-70°	533.1	11.9
70°-80°	254.9	5.7
80°-90°	43.0	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°	1258.9	28.1
0°-40°	2065.8	46.2
0°-60°	3643.0	81.4
0°-90°	4474.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4474.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1613	1613	1613	1613	1613	
5°	1619	1608	1608	1610	1614	154
15°	1562	1552	1556	1552	1561	441
25°	1451	1444	1442	1448	1450	670
35°	1304	1296	1289	1287	1292	813
45°	1104	1088	1081	1077	1082	845
55°	845	837	827	822	832	757
65°	560	554	531	518	536	553
75°	253	249	238	218	237	272
85°	32	31	29	27	29	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1612.7	1612.7	1612.7	1612.7	1612.7
2.5°	1619.5	1607.6	1605.1	1620.4	1620.4
5°	1618.7	1607.6	1608.5	1610.2	1613.6
7.5°	1607.6	1601.7	1595.7	1601.7	1605.9
10°	1597.4	1583.8	1582.1	1584.7	1594.0
12.5°	1580.4	1565.1	1566.8	1571.1	1579.6
15°	1561.7	1551.5	1555.8	1552.4	1560.9
17.5°	1539.6	1539.6	1528.6	1526.0	1538.8
20°	1524.3	1503.1	1517.5	1504.8	1515.0
22.5°	1486.1	1474.2	1470.8	1481.0	1481.0
25°	1451.3	1443.6	1441.9	1447.9	1450.4
27.5°	1418.1	1413.9	1415.6	1414.7	1414.7
30°	1382.4	1371.4	1370.5	1370.5	1371.4
32.5°	1344.2	1336.6	1335.7	1330.6	1333.2
35°	1304.3	1295.8	1289.0	1287.3	1291.5
37.5°	1250.7	1240.5	1239.7	1241.4	1241.4
40°	1201.5	1190.4	1192.1	1186.2	1193.8
42.5°	1147.9	1138.6	1132.6	1130.9	1140.3
45°	1103.7	1087.6	1080.8	1077.4	1082.5
47.5°	1034.1	1029.8	1023.0	1017.1	1029.0
50°	976.3	978.8	962.7	956.8	962.7
52.5°	915.1	904.1	893.0	882.8	899.8
55°	845.4	836.9	826.7	821.7	831.8
57.5°	781.7	772.4	757.1	745.2	763.0
60°	711.2	702.7	686.5	673.8	695.9
62.5°	639.0	629.6	614.3	593.9	616.9
65°	559.9	554.0	531.1	517.5	536.2
67.5°	480.1	476.7	463.1	440.1	467.3
70°	406.2	399.4	383.2	362.8	389.2
72.5°	333.1	321.2	309.3	289.7	311.8
75°	253.2	249.0	237.9	217.5	237.1
77.5°	183.5	179.3	171.6	156.3	171.6
80°	119.0	118.1	112.2	101.1	112.2
82.5°	68.0	68.0	63.7	59.5	63.7
85°	32.3	30.6	28.9	27.2	28.9
87.5°	8.5	8.5	8.5	8.5	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)