

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: P688290

Luminaire Tested: FLR-HA-22-L3C3 (HI)-35-CP125

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688290
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)-35-CP125
Description: Fail-Safe - FLR Fully Luminous Recessed 2X2 3500K Luminaire at High Lumen setting for High Abuse
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

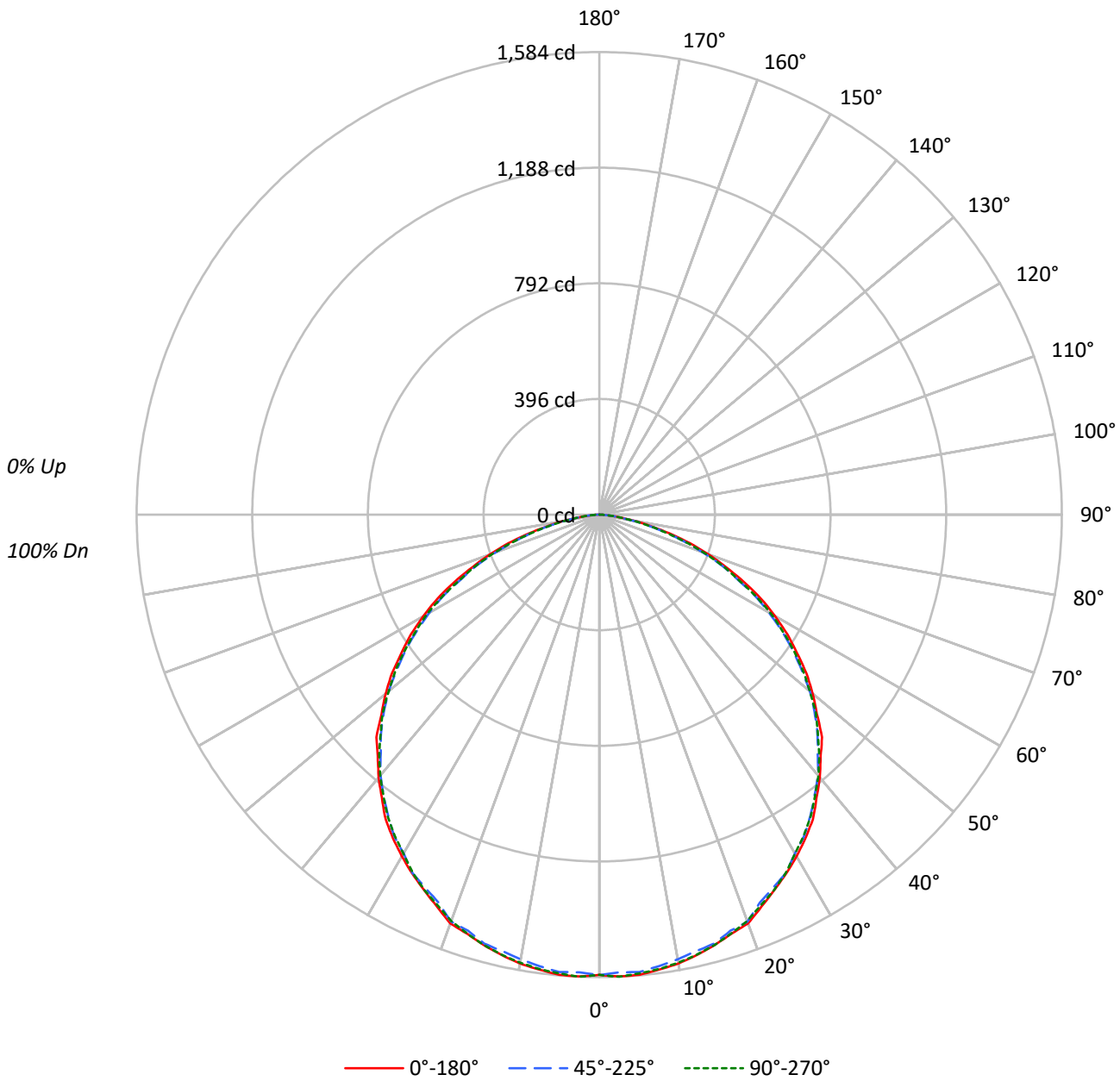
Lumens per Lamp: N/A
Luminaire Lumens: 4373.5 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 40.6
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°	4242	4242	4242
5°	4274	4247	4261
10°	4267	4226	4258
15°	4253	4237	4251
20°	4267	4248	4241
25°	4212	4185	4210
30°	4199	4163	4166
35°	4188	4139	4147
40°	4126	4093	4099
45°	4106	4021	4027
50°	3996	3940	3940
55°	3878	3792	3815
60°	3742	3612	3661
65°	3486	3305	3337
70°	3124	2947	2993
75°	2573	2418	2409
80°	1802	1698	1698
85°	976	871	871

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4106 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	3.4
10°-20°	429.0	9.8
20°-30°	652.1	14.9
30°-40°	788.7	18.0
40°-50°	816.4	18.7
50°-60°	725.4	16.6
60°-70°	521.2	11.9
70°-80°	249.2	5.7
80°-90°	42.0	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°	1230.6	28.1
0°-40°	2019.4	46.2
0°-60°	3561.2	81.4
0°-90°	4373.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4373.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1576	1576	1576	1576	1576	
5°	1582	1572	1572	1574	1577	150
15°	1527	1517	1521	1518	1526	431
25°	1419	1411	1410	1415	1418	655
35°	1275	1267	1260	1258	1262	795
45°	1079	1063	1056	1053	1058	826
55°	826	818	808	803	813	740
65°	547	542	519	506	524	541
75°	248	243	233	213	232	266
85°	32	30	28	27	28	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1576.5	1576.5	1576.5	1576.5	1576.5
2.5°	1583.1	1571.5	1569.0	1584.0	1584.0
5°	1582.3	1571.5	1572.3	1574.0	1577.3
7.5°	1571.5	1565.7	1559.9	1565.7	1569.8
10°	1561.5	1548.2	1546.6	1549.1	1558.2
12.5°	1544.9	1530.0	1531.6	1535.8	1544.1
15°	1526.6	1516.7	1520.8	1517.5	1525.8
17.5°	1505.1	1505.1	1494.3	1491.8	1504.2
20°	1490.1	1469.3	1483.5	1471.0	1481.0
22.5°	1452.7	1441.1	1437.8	1447.7	1447.7
25°	1418.7	1411.2	1409.5	1415.3	1417.8
27.5°	1386.3	1382.1	1383.8	1383.0	1383.0
30°	1351.4	1340.6	1339.8	1339.8	1340.6
32.5°	1314.0	1306.5	1305.7	1300.7	1303.2
35°	1275.0	1266.7	1260.0	1258.4	1262.5
37.5°	1222.6	1212.7	1211.9	1213.5	1213.5
40°	1174.5	1163.7	1165.3	1159.5	1167.0
42.5°	1122.1	1113.0	1107.2	1105.5	1114.7
45°	1079.0	1063.2	1056.5	1053.2	1058.2
47.5°	1010.8	1006.7	1000.0	994.2	1005.9
50°	954.4	956.9	941.1	935.3	941.1
52.5°	894.6	883.8	873.0	863.0	879.6
55°	826.5	818.1	808.2	803.2	813.2
57.5°	764.2	755.0	740.1	728.4	745.9
60°	695.2	686.9	671.1	658.7	680.3
62.5°	624.6	615.5	600.5	580.6	603.0
65°	547.4	541.6	519.1	505.8	524.1
67.5°	469.3	466.0	452.7	430.3	456.8
70°	397.0	390.4	374.6	354.7	380.4
72.5°	325.6	314.0	302.3	283.2	304.8
75°	247.5	243.4	232.6	212.6	231.7
77.5°	179.4	175.3	167.8	152.8	167.8
80°	116.3	115.5	109.6	98.8	109.6
82.5°	66.4	66.4	62.3	58.1	62.3
85°	31.6	29.9	28.2	26.6	28.2
87.5°	8.3	8.3	8.3	8.3	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)