

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: P688308

Luminaire Tested: FLR-HA-24-L3C3 (LOW)-35-CP125

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688308
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 (LOW)-35-CP125
Description: Fail-Safe - FLR Fully Luminous Recessed 2X4 3500K Luminaire at Low Lumen setting for High Abuse
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

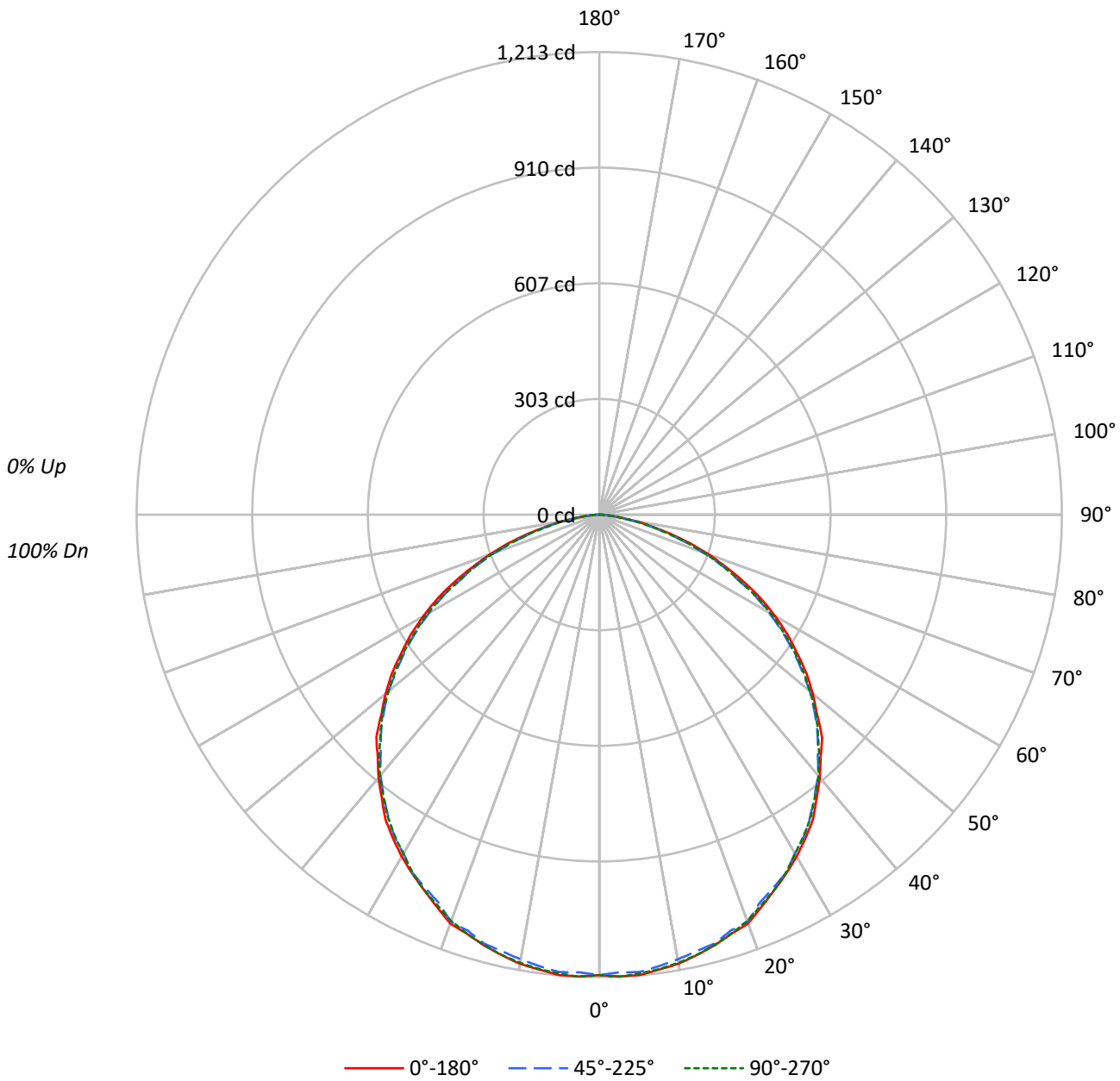
Lumens per Lamp: N/A
Luminaire Lumens: 3349.9 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 27.8
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	50	30	10
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°	1625	1625	1625
5°	1637	1627	1632
10°	1634	1618	1631
15°	1629	1623	1628
20°	1634	1627	1624
25°	1613	1603	1612
30°	1608	1594	1595
35°	1604	1585	1588
40°	1580	1568	1570
45°	1572	1540	1542
50°	1530	1509	1509
55°	1485	1452	1461
60°	1433	1383	1402
65°	1335	1266	1278
70°	1196	1129	1146
75°	986	926	923
80°	690	651	651
85°	374	333	333

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1572 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.5	3.4
10°-20°	328.6	9.8
20°-30°	499.5	14.9
30°-40°	604.1	18.0
40°-50°	625.3	18.7
50°-60°	555.6	16.6
60°-70°	399.2	11.9
70°-80°	190.9	5.7
80°-90°	32.2	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°	942.6	28.1
0°-40°	1546.7	46.2
0°-60°	2727.7	81.4
0°-90°	3349.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3349.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1208	1208	1208	1208	1208	
5°	1212	1204	1204	1206	1208	115
15°	1169	1162	1165	1162	1169	330
25°	1087	1081	1080	1084	1086	502
35°	977	970	965	964	967	609
45°	826	814	809	807	810	632
55°	633	627	619	615	623	567
65°	419	415	398	388	401	414
75°	190	186	178	163	178	204
85°	24	23	22	20	22	34
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1207.5	1207.5	1207.5	1207.5	1207.5
2.5°	1212.6	1203.7	1201.8	1213.2	1213.2
5°	1212.0	1203.7	1204.3	1205.6	1208.2
7.5°	1203.7	1199.3	1194.8	1199.3	1202.4
10°	1196.1	1185.9	1184.6	1186.5	1193.5
12.5°	1183.3	1171.9	1173.2	1176.3	1182.7
15°	1169.3	1161.7	1164.9	1162.4	1168.7
17.5°	1152.8	1152.8	1144.5	1142.6	1152.2
20°	1141.4	1125.5	1136.3	1126.7	1134.4
22.5°	1112.7	1103.8	1101.3	1108.9	1108.9
25°	1086.6	1080.9	1079.6	1084.1	1086.0
27.5°	1061.8	1058.6	1059.9	1059.3	1059.3
30°	1035.1	1026.8	1026.2	1026.2	1026.8
32.5°	1006.5	1000.8	1000.1	996.3	998.2
35°	976.6	970.2	965.1	963.9	967.0
37.5°	936.5	928.9	928.2	929.5	929.5
40°	899.6	891.3	892.6	888.1	893.9
42.5°	859.5	852.5	848.1	846.8	853.8
45°	826.4	814.3	809.3	806.7	810.5
47.5°	774.3	771.1	766.0	761.5	770.4
50°	731.0	732.9	720.8	716.4	720.8
52.5°	685.2	676.9	668.7	661.0	673.7
55°	633.0	626.7	619.0	615.2	622.8
57.5°	585.3	578.3	566.9	558.0	571.3
60°	532.5	526.1	514.1	504.5	521.1
62.5°	478.4	471.4	460.0	444.7	461.9
65°	419.3	414.8	397.6	387.5	401.4
67.5°	359.5	356.9	346.7	329.6	349.9
70°	304.1	299.0	286.9	271.7	291.4
72.5°	249.4	240.5	231.6	216.9	233.5
75°	189.6	186.4	178.1	162.9	177.5
77.5°	137.4	134.2	128.5	117.1	128.5
80°	89.1	88.4	84.0	75.7	84.0
82.5°	50.9	50.9	47.7	44.5	47.7
85°	24.2	22.9	21.6	20.4	21.6
87.5°	6.4	6.4	6.4	6.4	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)