

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: P688038

Luminaire Tested: FLR-HA-24-L3C3 (LOW)-35-CP375

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688038
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2207-724-15)
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-CP375
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

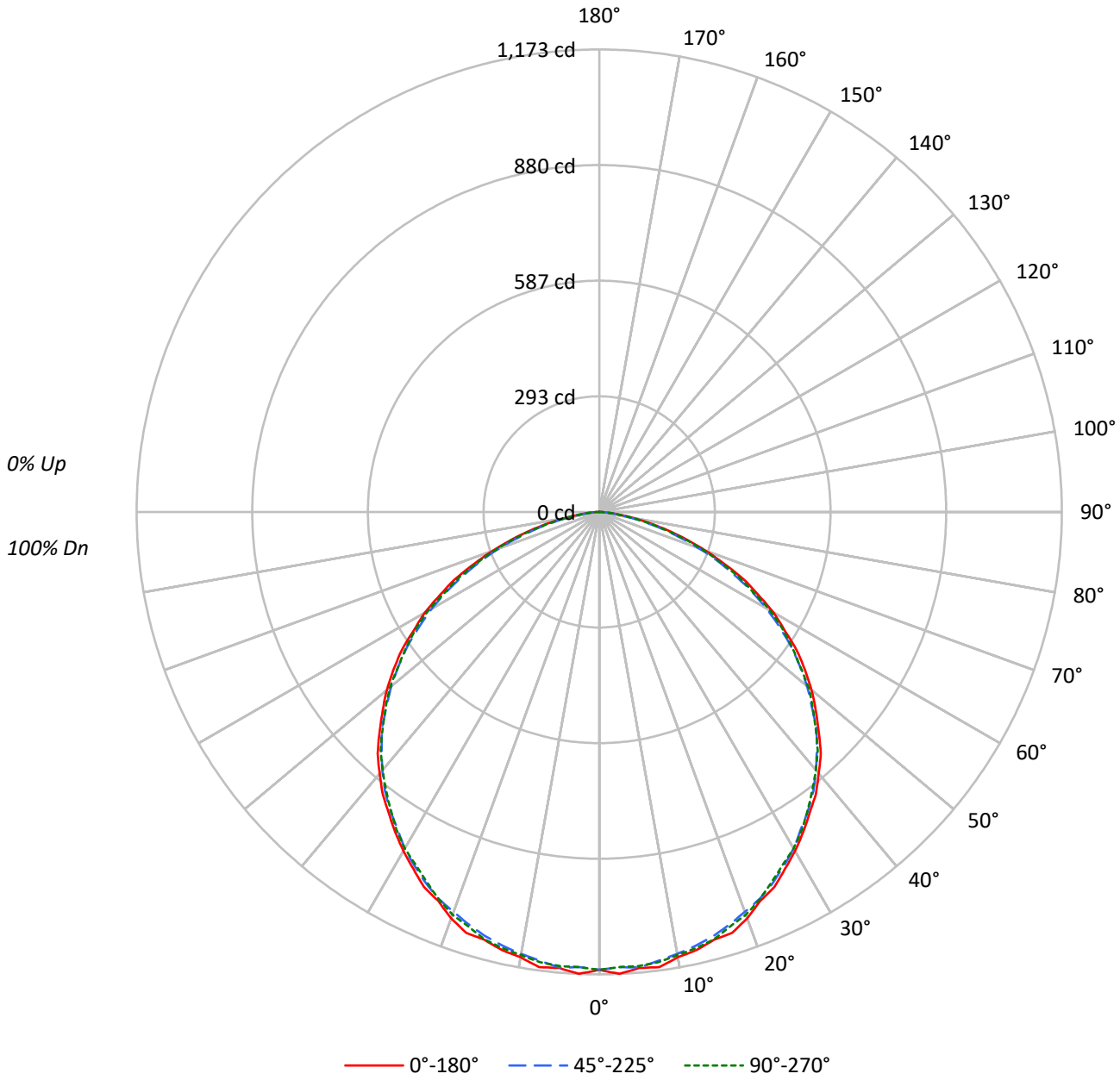
Lumens per Lamp: N/A
Luminaire Lumens: 3200.4 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	100	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85	85	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71	71	71
3	91	81	73	66	88	79	72	66	76	70	65	73	68	63	71	66	62	60	60	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51	51	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45	45	45
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39	39	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34	34	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31	31	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28	28	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25	25	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1562	1562	1562
5°	1568	1567	1561
10°	1567	1555	1559
15°	1565	1552	1563
20°	1571	1546	1557
25°	1560	1543	1537
30°	1543	1532	1531
35°	1529	1517	1514
40°	1521	1502	1501
45°	1498	1482	1477
50°	1472	1441	1450
55°	1434	1391	1399
60°	1373	1317	1347
65°	1286	1203	1242
70°	1126	1054	1094
75°	933	840	886
80°	661	592	616
85°	333	295	315

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1498 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	3.4
10°-20°	315.5	9.9
20°-30°	479.0	15.0
30°-40°	578.0	18.1
40°-50°	599.3	18.7
50°-60°	530.9	16.6
60°-70°	379.0	11.8
70°-80°	179.5	5.6
80°-90°	29.4	0.9
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°	904.3	28.3
0°-40°	1482.4	46.3
0°-60°	2612.5	81.6
0°-90°	3200.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3200.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1161	1161	1161	1161	1161	
5°	1161	1155	1160	1152	1156	111
15°	1124	1117	1114	1120	1122	319
25°	1050	1033	1040	1040	1035	483
35°	931	921	924	920	922	584
45°	787	776	779	776	776	608
55°	611	594	593	590	596	544
65°	404	378	378	380	390	395
75°	179	165	162	165	170	191
85°	22	20	19	18	20	32
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1161.2	1161.2	1161.2	1161.2	1161.2
2.5°	1172.6	1152.3	1155.4	1158.0	1155.4
5°	1161.2	1155.4	1159.9	1151.6	1156.1
7.5°	1164.3	1150.3	1148.4	1145.9	1151.6
10°	1147.2	1138.9	1138.3	1142.7	1141.4
12.5°	1138.3	1131.3	1127.4	1128.1	1133.2
15°	1123.6	1117.3	1114.1	1120.4	1122.3
17.5°	1119.8	1097.5	1097.5	1098.8	1102.6
20°	1096.9	1082.3	1079.7	1082.3	1087.4
22.5°	1067.6	1062.5	1062.5	1064.4	1063.2
25°	1050.5	1033.3	1039.6	1040.3	1035.2
27.5°	1020.5	1014.2	1012.9	1010.4	1008.5
30°	993.2	983.0	986.2	986.2	985.6
32.5°	962.6	955.7	952.5	953.1	956.3
35°	930.8	921.3	923.8	920.0	921.9
37.5°	902.2	889.5	892.0	890.1	888.2
40°	865.9	855.8	855.1	851.9	854.5
42.5°	831.6	816.9	816.3	816.9	820.1
45°	787.0	775.6	778.8	776.2	776.2
47.5°	744.4	736.8	731.1	731.7	734.2
50°	703.1	688.4	688.4	683.3	692.9
52.5°	657.2	642.6	640.7	642.6	641.3
55°	611.4	594.3	593.0	590.4	596.2
57.5°	556.1	539.5	540.8	542.1	550.4
60°	510.3	488.0	489.3	490.6	500.7
62.5°	453.6	435.2	434.6	436.5	439.0
65°	404.0	377.9	377.9	380.5	390.0
67.5°	341.0	325.1	324.5	327.7	331.5
70°	286.3	267.9	267.9	271.7	278.0
72.5°	231.6	216.3	213.8	219.5	224.0
75°	179.4	164.8	161.6	165.4	170.5
77.5°	128.5	119.0	116.4	120.3	121.5
80°	85.3	77.0	76.4	78.3	79.5
82.5°	49.0	43.9	42.0	43.9	44.5
85°	21.6	19.7	19.1	18.5	20.4
87.5°	5.1	5.1	5.1	5.1	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)