

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P892133

Luminaire Tested: **FLR-HA-24-L3C3 (MED)-35-CP080**

Issue Date: 10/22/2024



**Test Information**

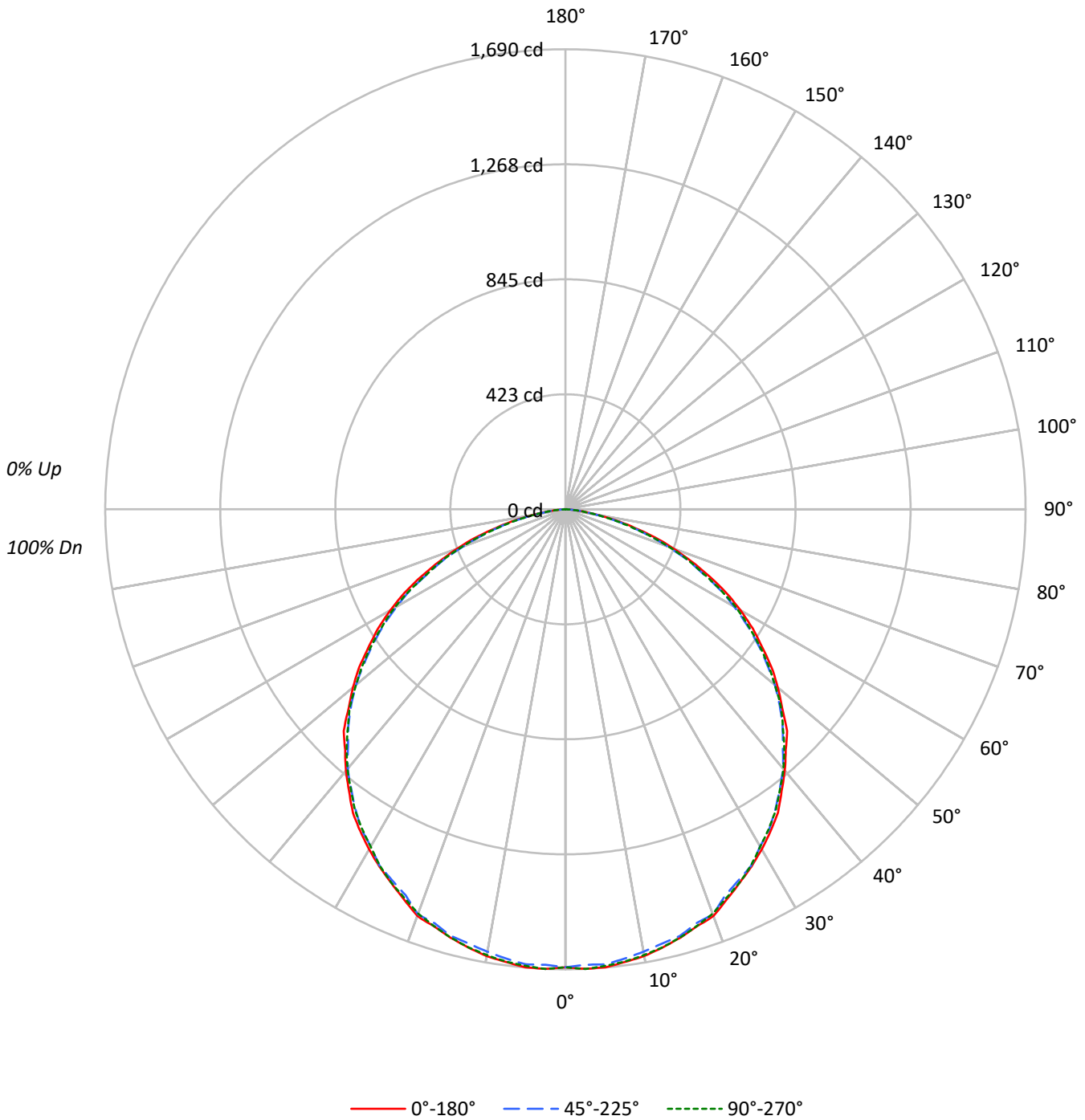
Test Method: LM-79-08  
Report Number: P892133  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2207-724-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/22/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLR-HA-24-L3C3 (MED)-35-CP080  
Description: Fail-Safe - FLR Fully Luminous Recessed 2X4 3500K Luminaire at  
Medium Lumen setting for High Abuse  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4667.6 lumens  
Efficiency: N/A  
Efficacy: 117.6 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): 39.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: 25 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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	87	87	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	73	73	73	71
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	71	66	62	62	62	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	54	54	54	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	47	47	47	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	41	41	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	36	36	36	34
8	61	48	39	33	59	47	39	33	45	38	33	44	38	33	43	37	33	33	33	33	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	29	40	34	29	29	29	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	27	27	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2264	2264	2264
5°	2281	2266	2274
10°	2277	2255	2272
15°	2270	2261	2268
20°	2277	2267	2263
25°	2248	2233	2246
30°	2241	2221	2223
35°	2235	2209	2213
40°	2201	2184	2188
45°	2191	2146	2149
50°	2132	2102	2102
55°	2069	2023	2036
60°	1997	1928	1954
65°	1860	1764	1781
70°	1667	1573	1597
75°	1373	1290	1286
80°	962	907	907
85°	520	465	465



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.6	3.4
10°-20°	457.9	9.8
20°-30°	695.9	14.9
30°-40°	841.7	18.0
40°-50°	871.3	18.7
50°-60°	774.2	16.6
60°-70°	556.2	11.9
70°-80°	266.0	5.7
80°-90°	44.8	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°	1313.4	28.1
0°-40°	2155.1	46.2
0°-60°	3800.6	81.4
0°-90°	4667.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4667.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1682	1682	1682	1682	1682	
5°	1689	1677	1678	1680	1683	160
15°	1629	1619	1623	1620	1628	460
25°	1514	1506	1504	1510	1513	699
35°	1361	1352	1345	1343	1347	848
45°	1152	1135	1128	1124	1129	881
55°	882	873	862	857	868	790
65°	584	578	554	540	559	577
75°	264	260	248	227	247	284
85°	34	32	30	28	30	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1682.5	1682.5	1682.5	1682.5	1682.5
2.5°	1689.6	1677.2	1674.5	1690.5	1690.5
5°	1688.7	1677.2	1678.0	1679.8	1683.4
7.5°	1677.2	1671.0	1664.8	1671.0	1675.4
10°	1666.5	1652.3	1650.6	1653.2	1663.0
12.5°	1648.8	1632.8	1634.6	1639.0	1647.9
15°	1629.3	1618.7	1623.1	1619.5	1628.4
17.5°	1606.2	1606.2	1594.7	1592.1	1605.4
20°	1590.3	1568.1	1583.2	1569.9	1580.5
22.5°	1550.4	1538.0	1534.4	1545.1	1545.1
25°	1514.1	1506.1	1504.3	1510.5	1513.2
27.5°	1479.5	1475.1	1476.8	1475.9	1475.9
30°	1442.3	1430.7	1429.8	1429.8	1430.7
32.5°	1402.4	1394.4	1393.5	1388.2	1390.8
35°	1360.7	1351.8	1344.7	1343.0	1347.4
37.5°	1304.9	1294.2	1293.3	1295.1	1295.1
40°	1253.4	1241.9	1243.7	1237.5	1245.5
42.5°	1197.6	1187.8	1181.6	1179.9	1189.6
45°	1151.5	1134.7	1127.6	1124.0	1129.3
47.5°	1078.8	1074.4	1067.3	1061.1	1073.5
50°	1018.5	1021.2	1004.3	998.1	1004.3
52.5°	954.7	943.2	931.7	921.0	938.7
55°	882.0	873.2	862.5	857.2	867.8
57.5°	815.5	805.8	789.8	777.4	796.0
60°	742.0	733.1	716.3	703.0	726.0
62.5°	666.6	656.9	640.9	619.6	643.6
65°	584.2	578.0	554.0	539.8	559.3
67.5°	500.8	497.3	483.1	459.2	487.5
70°	423.7	416.6	399.8	378.5	406.0
72.5°	347.5	335.1	322.7	302.3	325.3
75°	264.2	259.7	248.2	226.9	247.3
77.5°	191.5	187.0	179.1	163.1	179.1
80°	124.1	123.2	117.0	105.5	117.0
82.5°	70.9	70.9	66.5	62.1	66.5
85°	33.7	31.9	30.1	28.4	30.1
87.5°	8.9	8.9	8.9	8.9	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)