

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: METALUX

Report Number: P257226

Luminaire Tested: **24GR-LD5-48-F125-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P257226
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35585)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-48-F125-UNV-L935-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH F125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4097.9 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

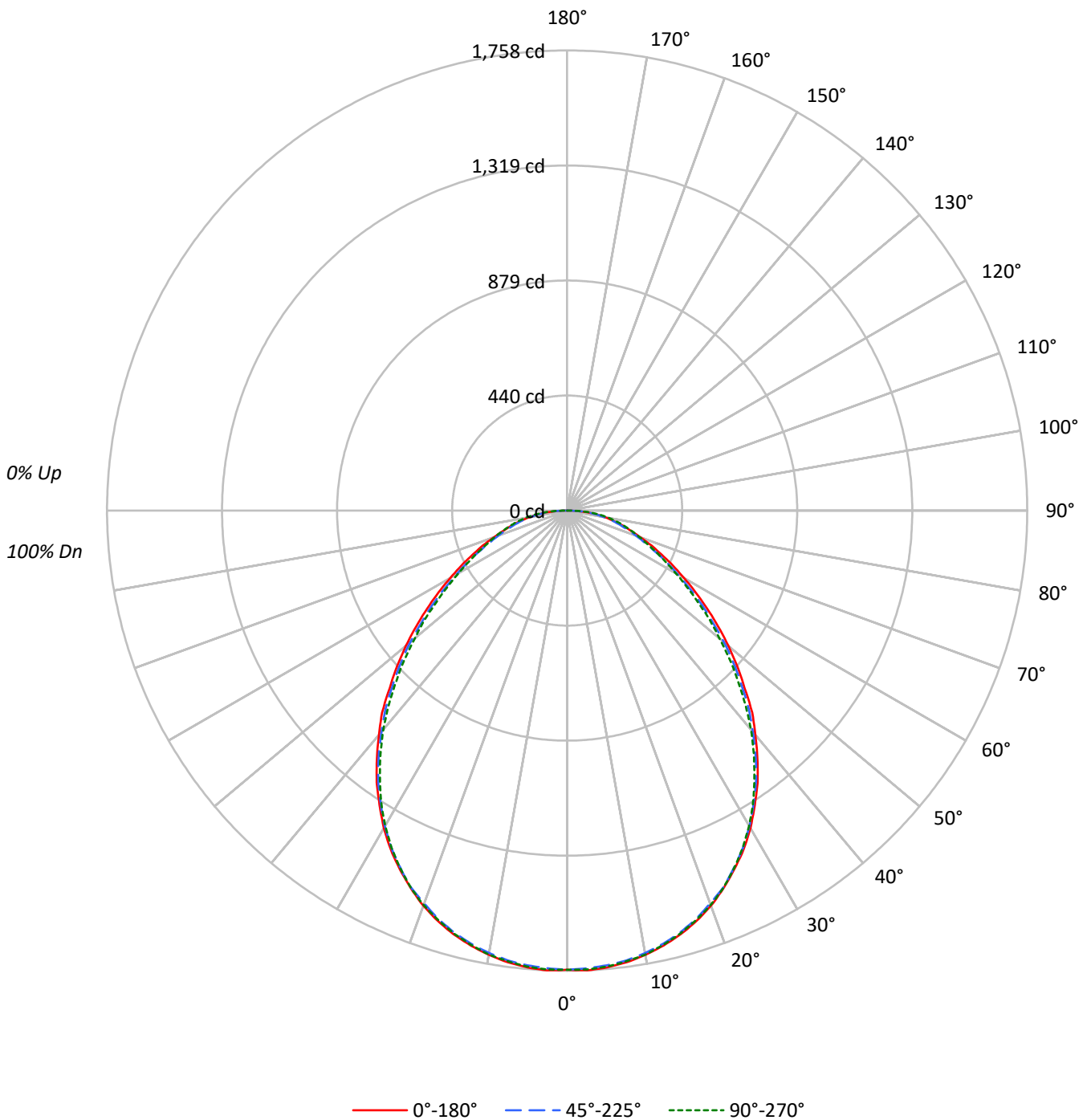
Input Watts (W): 37.486
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	80	98	90	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2687	2687	2687
5°	2694	2681	2689
10°	2680	2669	2679
15°	2658	2646	2652
20°	2619	2603	2614
25°	2555	2547	2549
30°	2477	2463	2458
35°	2372	2353	2332
40°	2236	2207	2185
45°	2077	2041	2002
50°	1915	1865	1809
55°	1741	1680	1628
60°	1577	1494	1467
65°	1443	1346	1355
70°	1327	1250	1310
75°	1289	1223	1335
80°	1292	1260	1421
85°	1420	1343	1566



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.8	4.0
10°-20°	470.5	11.5
20°-30°	693.2	16.9
30°-40°	784.0	19.1
40°-50°	727.2	17.7
50°-60°	565.0	13.8
60°-70°	378.9	9.2
70°-80°	227.0	5.5
80°-90°	86.4	2.1
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°	1329.5	32.4
0°-40°	2113.4	51.6
0°-60°	3405.6	83.1
0°-90°	4097.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4097.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1754	1754	1754	1754	1754	
5°	1752	1747	1744	1742	1749	166
15°	1676	1669	1669	1665	1672	472
25°	1512	1510	1507	1504	1508	696
35°	1269	1264	1258	1251	1247	791
45°	959	955	942	928	924	742
55°	652	644	629	613	610	585
65°	398	385	372	370	374	397
75°	218	210	207	217	226	230
85°	81	76	76	90	89	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1754.5	1754.5	1754.5	1754.5	1754.5
2.5°	1758.3	1752.6	1750.1	1748.8	1754.5
5°	1752.0	1746.9	1743.8	1742.5	1748.8
7.5°	1740.6	1734.9	1733.1	1730.5	1736.8
10°	1723.5	1718.5	1716.0	1714.1	1722.3
12.5°	1702.0	1697.6	1695.2	1693.9	1698.9
15°	1676.2	1669.2	1668.6	1665.4	1672.4
17.5°	1644.0	1637.6	1636.3	1635.1	1639.6
20°	1606.7	1600.4	1597.2	1596.6	1603.5
22.5°	1561.8	1557.4	1558.6	1554.9	1559.9
25°	1511.9	1510.0	1506.9	1504.3	1508.1
27.5°	1460.1	1453.8	1453.8	1448.7	1452.5
30°	1400.7	1396.3	1392.5	1387.5	1390.0
32.5°	1333.7	1331.9	1326.2	1321.1	1322.3
35°	1268.6	1263.6	1258.5	1250.9	1247.2
37.5°	1194.1	1189.1	1182.8	1172.0	1170.7
40°	1118.3	1113.8	1103.7	1092.4	1093.0
42.5°	1046.3	1039.3	1026.7	1011.5	1008.4
45°	959.1	955.3	942.1	927.5	924.3
47.5°	881.4	878.8	862.4	847.3	843.5
50°	803.7	796.7	782.8	767.6	759.4
52.5°	727.2	718.3	700.7	690.5	686.8
55°	652.0	644.5	629.3	613.4	609.7
57.5°	581.9	573.7	555.4	544.0	542.0
60°	514.9	507.4	487.7	479.6	478.9
62.5°	455.5	442.9	429.6	424.0	424.6
65°	398.1	385.4	371.5	370.3	374.0
67.5°	347.5	334.2	320.4	325.4	329.2
70°	296.3	286.9	279.2	287.5	292.5
72.5°	252.7	247.0	240.1	251.4	257.8
75°	217.9	210.4	206.6	216.8	225.6
77.5°	180.7	174.3	174.3	185.1	194.6
80°	146.5	142.1	142.8	155.5	161.1
82.5°	115.0	108.6	109.3	125.1	128.9
85°	80.8	75.8	76.4	89.7	89.1
87.5°	42.3	40.5	42.3	51.8	49.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)