

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: P219178

Luminaire Tested: **24GR-LD5-48-A125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-48-A125-UNV-L940-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4224.3 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

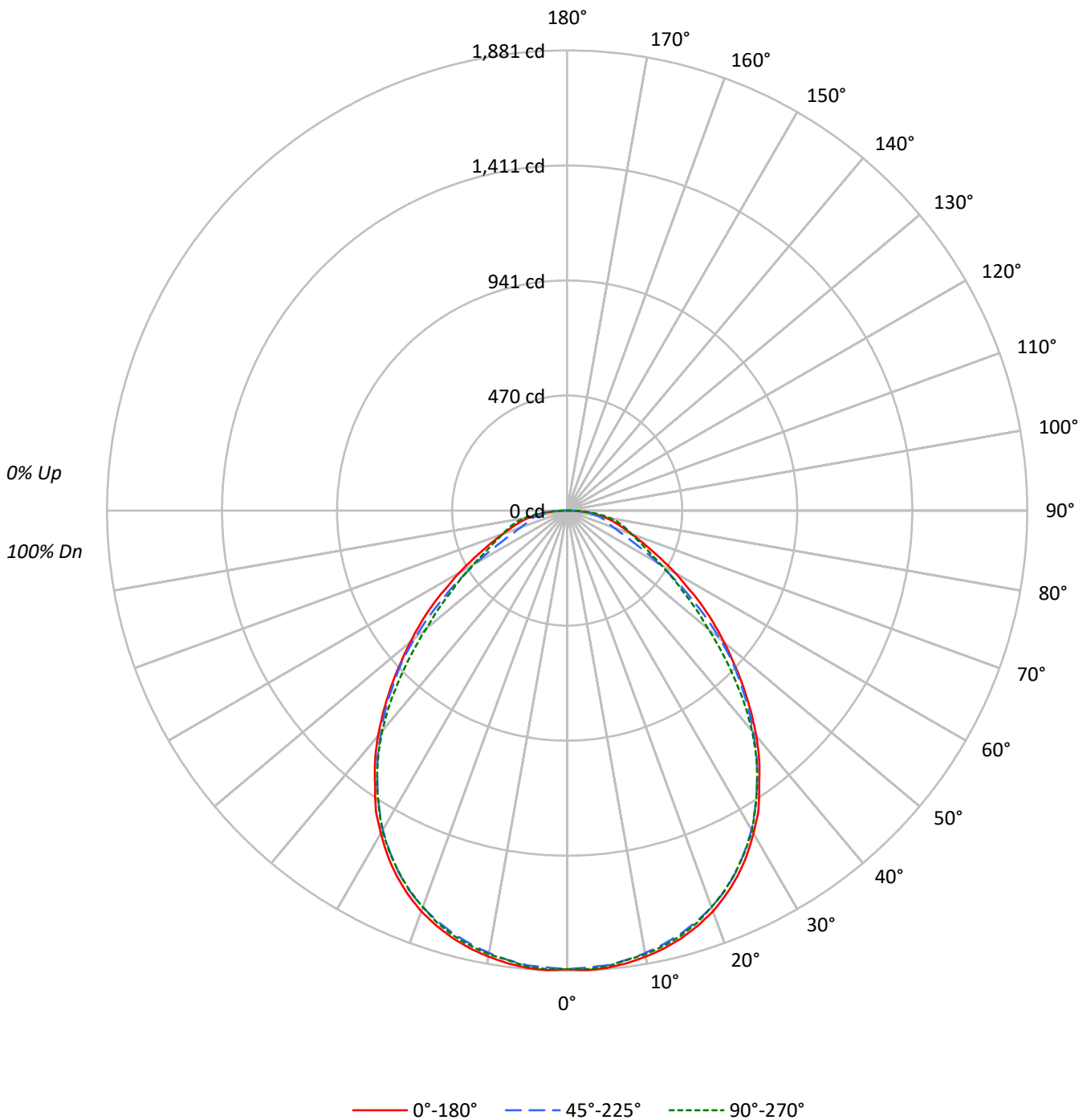
Input Watts (W): 37.486
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2871	2871	2871
5°	2885	2869	2876
10°	2879	2856	2864
15°	2868	2839	2852
20°	2841	2812	2811
25°	2786	2756	2754
30°	2694	2666	2672
35°	2559	2530	2533
40°	2406	2364	2350
45°	2205	2175	2089
50°	1993	1939	1793
55°	1790	1629	1546
60°	1567	1311	1359
65°	1367	1031	1251
70°	1251	900	1251
75°	1252	958	1379
80°	1358	1128	1572
85°	1490	1272	1685



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.5	4.2
10°-20°	506.5	12.0
20°-30°	751.0	17.8
30°-40°	847.3	20.1
40°-50°	767.4	18.2
50°-60°	553.6	13.1
60°-70°	330.5	7.8
70°-80°	204.3	4.8
80°-90°	86.1	2.0
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°	1435.0	34.0
0°-40°	2282.3	54.0
0°-60°	3603.3	85.3
0°-90°	4224.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4224.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1874	1874	1874	1874	1874	
5°	1876	1874	1866	1864	1870	178
15°	1809	1798	1791	1791	1798	510
25°	1648	1639	1631	1625	1630	757
35°	1368	1366	1353	1354	1355	856
45°	1018	1012	1004	980	964	785
55°	670	649	610	580	579	598
65°	377	332	284	323	345	379
75°	212	183	162	202	233	226
85°	85	74	72	95	96	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1874.3	1874.3	1874.3	1874.3	1874.3
2.5°	1880.7	1875.6	1869.0	1872.9	1876.2
5°	1876.2	1873.6	1865.8	1863.8	1870.3
7.5°	1866.5	1859.9	1852.7	1856.0	1853.4
10°	1851.4	1845.6	1836.4	1837.0	1841.6
12.5°	1833.2	1826.0	1816.1	1818.8	1822.7
15°	1809.0	1797.9	1790.7	1791.4	1798.5
17.5°	1778.3	1769.8	1760.7	1762.7	1765.9
20°	1743.0	1738.5	1725.4	1721.5	1724.8
22.5°	1698.7	1690.2	1683.0	1681.0	1681.7
25°	1648.4	1639.3	1630.8	1625.0	1629.5
27.5°	1589.7	1581.9	1570.8	1568.8	1572.8
30°	1523.1	1517.3	1507.5	1504.9	1510.8
32.5°	1455.3	1445.5	1431.8	1431.8	1433.1
35°	1368.5	1366.5	1352.9	1353.5	1354.8
37.5°	1290.2	1281.1	1273.2	1265.4	1269.3
40°	1203.4	1192.9	1182.5	1177.3	1175.4
42.5°	1110.1	1102.3	1097.7	1078.7	1074.1
45°	1018.1	1011.5	1004.3	979.5	964.5
47.5°	924.1	922.8	916.9	873.2	858.2
50°	836.6	834.6	813.8	767.5	752.4
52.5°	753.7	740.7	713.3	667.6	665.0
55°	670.2	649.3	610.2	580.2	578.9
57.5°	582.1	557.3	517.5	501.2	509.6
60°	511.6	473.8	428.1	430.1	443.8
62.5°	438.5	396.1	351.1	370.7	387.0
65°	377.2	332.1	284.5	323.0	345.2
67.5°	323.7	281.9	236.2	287.8	309.3
70°	279.3	245.4	201.0	255.2	279.3
72.5°	244.1	212.8	178.2	229.0	257.1
75°	211.5	183.4	161.9	201.7	233.0
77.5°	183.4	156.0	146.2	178.2	208.8
80°	154.0	129.2	127.9	155.3	178.2
82.5°	120.1	103.1	103.1	129.9	143.5
85°	84.8	74.4	72.4	94.6	95.9
87.5°	43.7	41.8	37.8	49.6	49.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)