

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: P219133

Luminaire Tested: **24GR-LD5-48-A-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219133
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-A-UNV-L950-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4513.8 lumens
Efficiency: N/A
Efficacy: 120.4 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

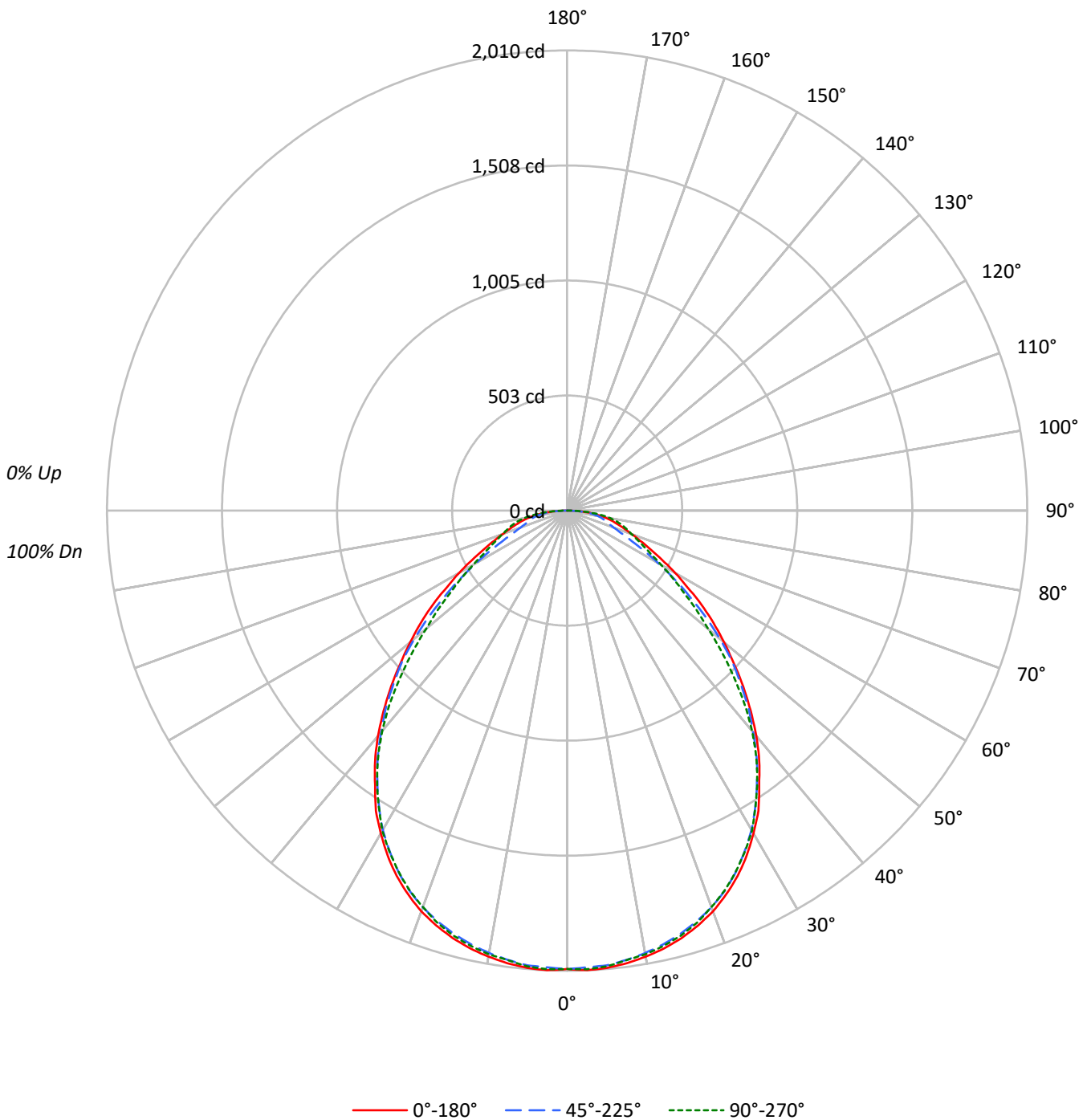
Input Watts (W): 37.486
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3067	3067	3067
5°	3082	3065	3073
10°	3077	3052	3061
15°	3065	3034	3047
20°	3036	3005	3004
25°	2977	2945	2943
30°	2878	2849	2855
35°	2734	2703	2707
40°	2571	2526	2511
45°	2356	2325	2233
50°	2130	2072	1916
55°	1912	1741	1652
60°	1675	1401	1453
65°	1461	1102	1337
70°	1337	962	1337
75°	1337	1023	1474
80°	1451	1206	1679
85°	1592	1360	1801



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.6	4.2
10°-20°	541.2	12.0
20°-30°	802.5	17.8
30°-40°	905.3	20.1
40°-50°	820.0	18.2
50°-60°	591.6	13.1
60°-70°	353.2	7.8
70°-80°	218.3	4.8
80°-90°	92.0	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°	1533.4	34.0
0°-40°	2438.7	54.0
0°-60°	3850.3	85.3
0°-90°	4513.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4513.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2003	2003	2003	2003	2003	
5°	2005	2002	1994	1992	1998	190
15°	1933	1921	1914	1914	1922	545
25°	1761	1752	1743	1736	1741	809
35°	1462	1460	1446	1446	1448	915
45°	1088	1081	1073	1047	1031	838
55°	716	694	652	620	618	639
65°	403	355	304	345	369	405
75°	226	196	173	216	249	241
85°	91	80	77	101	102	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2002.7	2002.7	2002.7	2002.7	2002.7
2.5°	2009.6	2004.1	1997.1	2001.3	2004.8
5°	2004.8	2002.0	1993.6	1991.5	1998.5
7.5°	1994.4	1987.3	1979.7	1983.2	1980.4
10°	1978.3	1972.1	1962.2	1963.0	1967.9
12.5°	1958.8	1951.1	1940.7	1943.4	1947.6
15°	1932.9	1921.1	1913.5	1914.2	1921.8
17.5°	1900.2	1891.2	1881.3	1883.4	1887.0
20°	1862.6	1857.7	1843.8	1839.6	1843.0
22.5°	1815.1	1806.1	1798.4	1796.3	1797.0
25°	1761.4	1751.7	1742.6	1736.4	1741.2
27.5°	1698.7	1690.3	1678.5	1676.4	1680.6
30°	1627.5	1621.3	1610.8	1608.1	1614.3
32.5°	1555.0	1544.5	1529.9	1529.9	1531.3
35°	1462.3	1460.2	1445.5	1446.3	1447.6
37.5°	1378.6	1368.8	1360.4	1352.1	1356.3
40°	1285.8	1274.7	1263.5	1258.0	1255.9
42.5°	1186.2	1177.8	1172.9	1152.7	1147.8
45°	1087.8	1080.8	1073.2	1046.7	1030.7
47.5°	987.4	986.0	979.7	933.0	917.0
50°	894.0	891.9	869.6	820.1	804.0
52.5°	805.4	791.4	762.2	713.3	710.5
55°	716.2	693.9	652.0	619.9	618.5
57.5°	622.0	595.5	553.0	535.5	544.6
60°	546.7	506.2	457.5	459.6	474.2
62.5°	468.6	423.2	375.2	396.1	413.5
65°	403.0	354.9	304.0	345.2	368.9
67.5°	345.9	301.2	252.4	307.5	330.5
70°	298.5	262.2	214.8	272.6	298.5
72.5°	260.8	227.3	190.4	244.8	274.7
75°	226.0	195.9	172.9	215.5	249.0
77.5°	195.9	166.6	156.2	190.4	223.1
80°	164.5	138.0	136.7	166.0	190.4
82.5°	128.3	110.2	110.2	138.8	153.4
85°	90.6	79.5	77.4	101.1	102.5
87.5°	46.7	44.6	40.4	53.0	53.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)