

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: P293688

Luminaire Tested: **24GR-LD5-48-A125-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-48-A125-UNV-L83050-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5150.0 lumens
Efficiency: N/A
Efficacy: 149.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

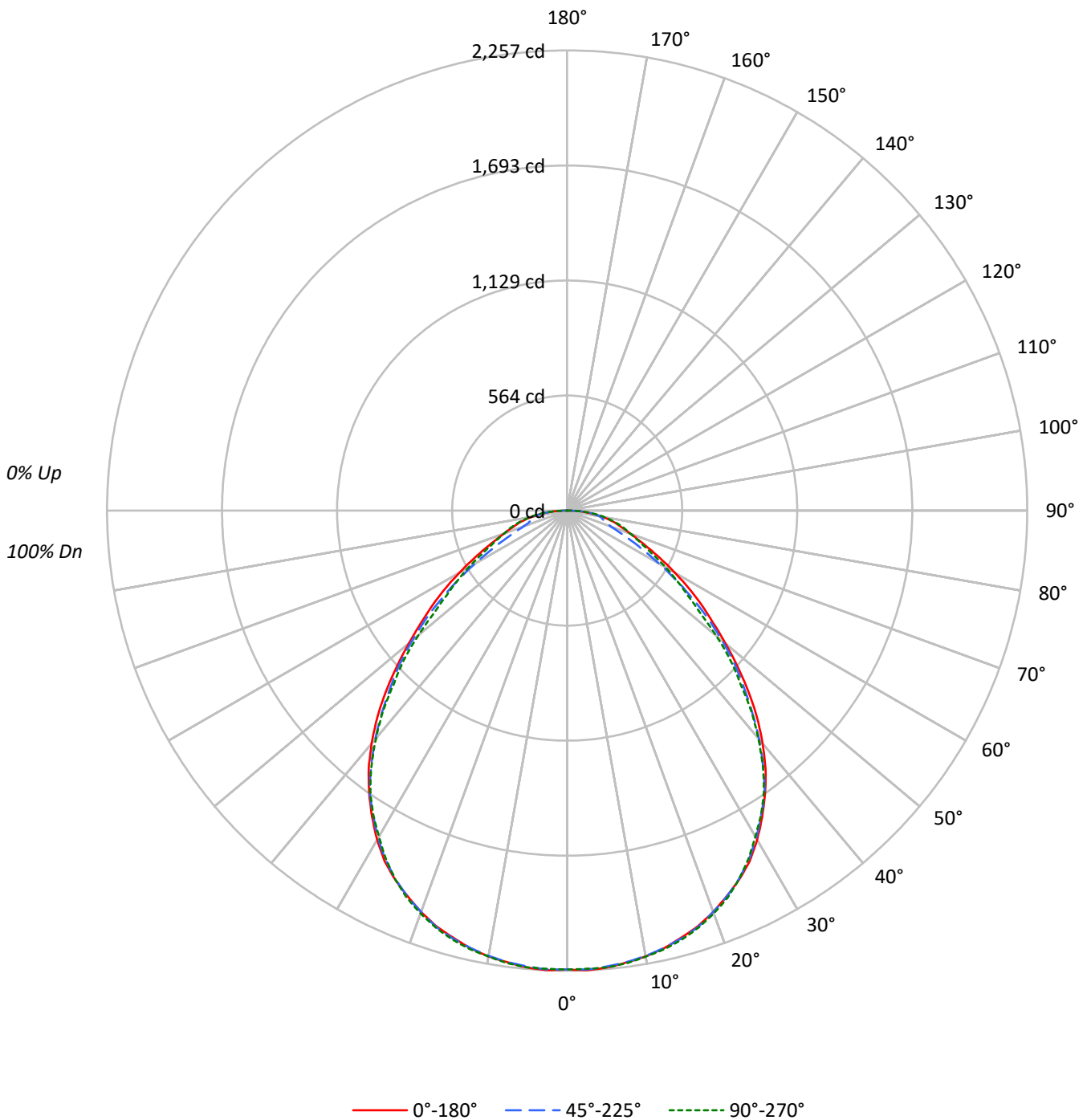
Input Watts (W): 34.41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	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	47	72	60	52	46	58	51	46	57	50	46	55	50	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°	3028	3028	3028
5°	3038	3032	3037
10°	3034	3030	3035
15°	3019	3025	3033
20°	2999	2999	3010
25°	2965	2959	2962
30°	2896	2881	2867
35°	2782	2774	2763
40°	2620	2572	2561
45°	2397	2331	2289
50°	2119	2077	1996
55°	1885	1757	1689
60°	1641	1405	1507
65°	1417	1090	1333
70°	1293	891	1290
75°	1303	961	1370
80°	1357	1251	1444
85°	1414	1488	1599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.5	4.1
10°-20°	612.2	11.9
20°-30°	916.4	17.8
30°-40°	1047.2	20.3
40°-50°	946.8	18.4
50°-60°	681.1	13.2
60°-70°	394.9	7.7
70°-80°	234.2	4.5
80°-90°	103.7	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°	1742.1	33.8
0°-40°	2789.3	54.2
0°-60°	4417.2	85.8
0°-90°	5150.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5150.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2250	2250	2250	2250	2250	
5°	2250	2246	2245	2242	2249	214
15°	2168	2172	2172	2169	2177	612
25°	1997	1995	1993	1989	1995	918
35°	1694	1686	1689	1668	1682	1056
45°	1260	1238	1225	1214	1203	968
55°	803	788	749	730	720	719
65°	445	395	342	382	419	449
75°	251	210	185	228	264	265
85°	92	99	96	111	104	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2250.4	2250.4	2250.4	2250.4	2250.4
2.5°	2256.8	2248.8	2252.8	2250.4	2249.6
5°	2249.6	2246.4	2244.7	2241.5	2248.8
7.5°	2235.1	2232.7	2233.5	2234.3	2239.1
10°	2220.6	2216.6	2217.4	2219.0	2221.4
12.5°	2198.1	2195.7	2196.5	2198.1	2203.8
15°	2167.6	2171.6	2171.6	2169.2	2177.3
17.5°	2137.1	2136.3	2140.3	2133.1	2144.3
20°	2094.5	2095.3	2094.5	2095.3	2102.5
22.5°	2046.3	2050.3	2047.9	2047.9	2055.9
25°	1997.3	1994.9	1993.3	1989.3	1994.9
27.5°	1938.6	1933.8	1929.8	1921.8	1925.8
30°	1863.9	1864.7	1854.3	1847.1	1845.4
32.5°	1780.4	1780.4	1770.7	1765.1	1769.9
35°	1693.6	1685.6	1688.8	1667.9	1682.4
37.5°	1599.6	1586.7	1579.5	1572.3	1577.1
40°	1491.9	1475.1	1464.6	1450.2	1458.2
42.5°	1378.7	1357.8	1344.9	1334.5	1337.7
45°	1259.8	1238.1	1225.2	1214.0	1202.7
47.5°	1134.4	1120.8	1114.3	1099.9	1087.0
50°	1012.3	1007.5	992.2	980.2	953.7
52.5°	900.6	896.6	872.5	852.4	818.7
55°	803.4	788.2	748.8	729.5	719.9
57.5°	704.6	679.7	632.3	629.9	636.3
60°	609.8	579.3	522.2	535.1	560.0
62.5°	523.8	478.0	423.4	453.9	483.7
65°	445.1	395.3	342.3	382.4	418.6
67.5°	380.0	330.2	275.6	329.4	371.2
70°	328.6	278.0	226.6	288.4	327.8
72.5°	286.0	240.2	197.6	256.3	297.3
75°	250.7	209.7	184.8	228.2	263.5
77.5°	215.3	182.4	176.8	203.3	225.0
80°	175.1	159.9	161.5	178.4	186.4
82.5°	131.0	131.8	135.8	149.4	146.2
85°	91.6	98.8	96.4	110.9	103.6
87.5°	50.6	55.4	52.2	63.5	57.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)