

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: P293747

Luminaire Tested: **24GR-LD5-48-A125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293747
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-L82765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4586.0 lumens
Efficiency: N/A
Efficacy: 140.5 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

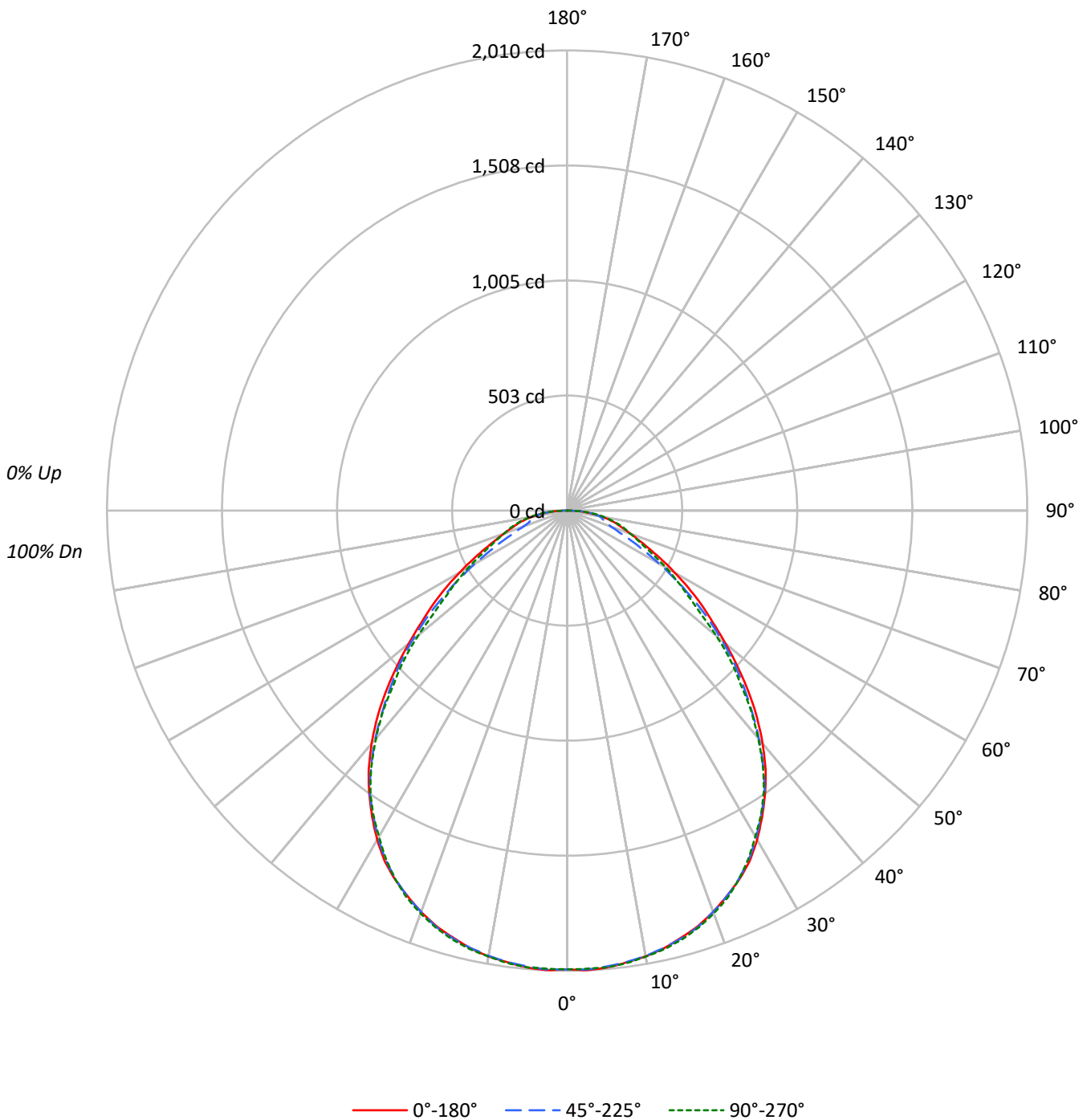
Input Watts (W): 32.643
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2696	2696	2696
5°	2706	2700	2705
10°	2702	2698	2703
15°	2689	2694	2701
20°	2671	2671	2681
25°	2640	2635	2637
30°	2579	2565	2553
35°	2477	2470	2461
40°	2334	2291	2281
45°	2135	2076	2038
50°	1887	1850	1778
55°	1678	1564	1504
60°	1461	1251	1342
65°	1262	970	1187
70°	1151	794	1148
75°	1160	855	1220
80°	1209	1114	1286
85°	1260	1326	1425



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.1	4.1
10°-20°	545.2	11.9
20°-30°	816.1	17.8
30°-40°	932.5	20.3
40°-50°	843.1	18.4
50°-60°	606.5	13.2
60°-70°	351.6	7.7
70°-80°	208.6	4.5
80°-90°	92.4	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°	1551.3	33.8
0°-40°	2483.8	54.2
0°-60°	3933.4	85.8
0°-90°	4586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4586.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2004	2004	2004	2004	2004	
5°	2003	2000	1999	1996	2002	190
15°	1930	1934	1934	1932	1939	545
25°	1779	1776	1775	1771	1776	818
35°	1508	1501	1504	1485	1498	940
45°	1122	1102	1091	1081	1071	862
55°	715	702	667	650	641	640
65°	396	352	305	340	373	400
75°	223	187	164	203	235	236
85°	82	88	86	99	92	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2003.9	2003.9	2003.9	2003.9	2003.9
2.5°	2009.6	2002.5	2006.1	2003.9	2003.2
5°	2003.2	2000.3	1998.9	1996.1	2002.5
7.5°	1990.3	1988.2	1988.9	1989.6	1993.9
10°	1977.5	1973.9	1974.6	1976.0	1978.2
12.5°	1957.4	1955.3	1956.0	1957.4	1962.4
15°	1930.2	1933.8	1933.8	1931.7	1938.8
17.5°	1903.0	1902.3	1905.9	1899.5	1909.5
20°	1865.1	1865.8	1865.1	1865.8	1872.3
22.5°	1822.2	1825.8	1823.6	1823.6	1830.8
25°	1778.6	1776.4	1775.0	1771.4	1776.4
27.5°	1726.3	1722.0	1718.5	1711.3	1714.9
30°	1659.8	1660.5	1651.2	1644.8	1643.3
32.5°	1585.4	1585.4	1576.8	1571.8	1576.1
35°	1508.1	1501.0	1503.8	1485.2	1498.1
37.5°	1424.4	1413.0	1406.5	1400.1	1404.4
40°	1328.6	1313.5	1304.2	1291.4	1298.5
42.5°	1227.7	1209.1	1197.6	1188.3	1191.2
45°	1121.8	1102.5	1091.0	1081.0	1071.0
47.5°	1010.2	998.0	992.3	979.4	968.0
50°	901.4	897.2	883.6	872.8	849.2
52.5°	802.0	798.4	777.0	759.1	729.0
55°	715.4	701.8	666.8	649.6	641.0
57.5°	627.4	605.3	563.0	560.9	566.6
60°	543.0	515.8	465.0	476.5	498.7
62.5°	466.5	425.7	377.0	404.2	430.7
65°	396.3	352.0	304.8	340.5	372.7
67.5°	338.4	294.0	245.4	293.3	330.5
70°	292.6	247.5	201.8	256.8	291.9
72.5°	254.7	213.9	176.0	228.2	264.7
75°	223.2	186.7	164.5	203.2	234.7
77.5°	191.7	162.4	157.4	181.0	200.3
80°	156.0	142.4	143.8	158.8	166.0
82.5°	116.6	117.3	120.9	133.1	130.2
85°	81.6	88.0	85.9	98.7	92.3
87.5°	45.1	49.4	46.5	56.5	50.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)