

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: P293753

Luminaire Tested: **24GR-LD5-48-A125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293753
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-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5065.0 lumens
Efficiency: N/A
Efficacy: 150.0 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

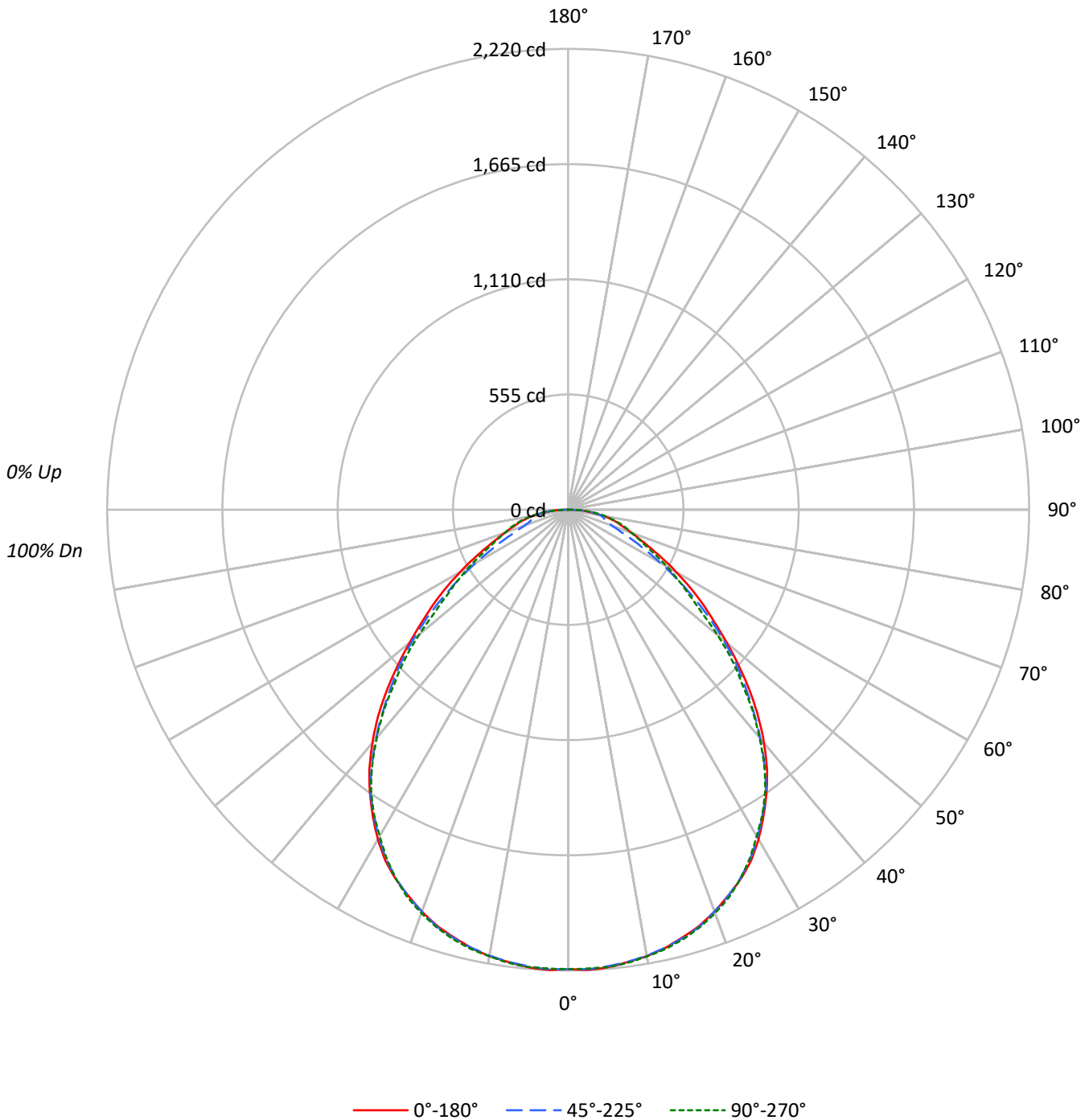
Input Watts (W): 33.759
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293753

CATALOG NUMBER: 24GR-LD5-48-A125-UNV-L82765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P293753

CATALOG NUMBER: 24GR-LD5-48-A125-UNV-L82765-W2A1-U-5700K

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°	2978	2978	2978
5°	2988	2982	2987
10°	2984	2980	2985
15°	2969	2975	2983
20°	2949	2949	2961
25°	2916	2910	2913
30°	2848	2833	2820
35°	2736	2728	2718
40°	2577	2530	2519
45°	2358	2293	2251
50°	2084	2043	1963
55°	1854	1727	1661
60°	1614	1382	1482
65°	1394	1072	1311
70°	1271	876	1268
75°	1281	945	1347
80°	1335	1230	1420
85°	1391	1463	1573



TEST NUMBER: P293753

CATALOG NUMBER: 24GR-LD5-48-A125-UNV-L82765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.9	4.1
10°-20°	602.1	11.9
20°-30°	901.3	17.8
30°-40°	1029.9	20.3
40°-50°	931.1	18.4
50°-60°	669.9	13.2
60°-70°	388.4	7.7
70°-80°	230.4	4.5
80°-90°	102.0	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°	1713.4	33.8
0°-40°	2743.2	54.2
0°-60°	4344.3	85.8
0°-90°	5065.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5065.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2213	2213	2213	2213	2213	
5°	2212	2209	2208	2204	2212	210
15°	2132	2136	2136	2133	2141	602
25°	1964	1962	1960	1956	1962	903
35°	1666	1658	1661	1640	1655	1038
45°	1239	1218	1205	1194	1183	952
55°	790	775	736	718	708	707
65°	438	389	337	376	412	442
75°	246	206	182	224	259	261
85°	90	97	95	109	102	97
90°	0	0	0	0	0	



TEST NUMBER: P293753

CATALOG NUMBER: 24GR-LD5-48-A125-UNV-L82765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2213.2	2213.2	2213.2	2213.2	2213.2
2.5°	2219.6	2211.6	2215.6	2213.2	2212.4
5°	2212.4	2209.3	2207.7	2204.5	2211.6
7.5°	2198.2	2195.8	2196.6	2197.4	2202.2
10°	2184.0	2180.0	2180.8	2182.4	2184.8
12.5°	2161.9	2159.5	2160.3	2161.9	2167.4
15°	2131.8	2135.8	2135.8	2133.4	2141.3
17.5°	2101.8	2101.0	2105.0	2097.9	2108.9
20°	2059.9	2060.7	2059.9	2060.7	2067.8
22.5°	2012.5	2016.5	2014.1	2014.1	2022.0
25°	1964.3	1962.0	1960.4	1956.4	1962.0
27.5°	1906.6	1901.9	1898.0	1890.1	1894.0
30°	1833.2	1834.0	1823.7	1816.6	1815.0
32.5°	1751.0	1751.0	1741.5	1736.0	1740.7
35°	1665.7	1657.7	1660.9	1640.4	1654.6
37.5°	1573.2	1560.6	1553.4	1546.3	1551.1
40°	1467.3	1450.7	1440.5	1426.2	1434.1
42.5°	1355.9	1335.4	1322.7	1312.5	1315.6
45°	1239.0	1217.6	1205.0	1193.9	1182.9
47.5°	1115.7	1102.3	1095.9	1081.7	1069.1
50°	995.6	990.9	975.8	964.0	937.9
52.5°	885.8	881.8	858.1	838.4	805.2
55°	790.2	775.1	736.4	717.5	708.0
57.5°	693.0	668.5	621.9	619.5	625.8
60°	599.7	569.7	513.6	526.2	550.7
62.5°	515.2	470.1	416.4	446.4	475.7
65°	437.7	388.8	336.6	376.1	411.7
67.5°	373.7	324.8	271.0	324.0	365.1
70°	323.2	273.4	222.8	283.7	322.4
72.5°	281.3	236.3	194.4	252.1	292.4
75°	246.5	206.2	181.7	224.4	259.2
77.5°	211.8	179.4	173.8	199.9	221.2
80°	172.3	157.2	158.8	175.4	183.3
82.5°	128.8	129.6	133.5	147.0	143.8
85°	90.1	97.2	94.8	109.0	101.9
87.5°	49.8	54.5	51.4	62.4	56.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)