

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: P293685

Luminaire Tested: **24GR-LD5-48-A125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293685
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-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: 4591.0 lumens
Efficiency: N/A
Efficacy: 140.2 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

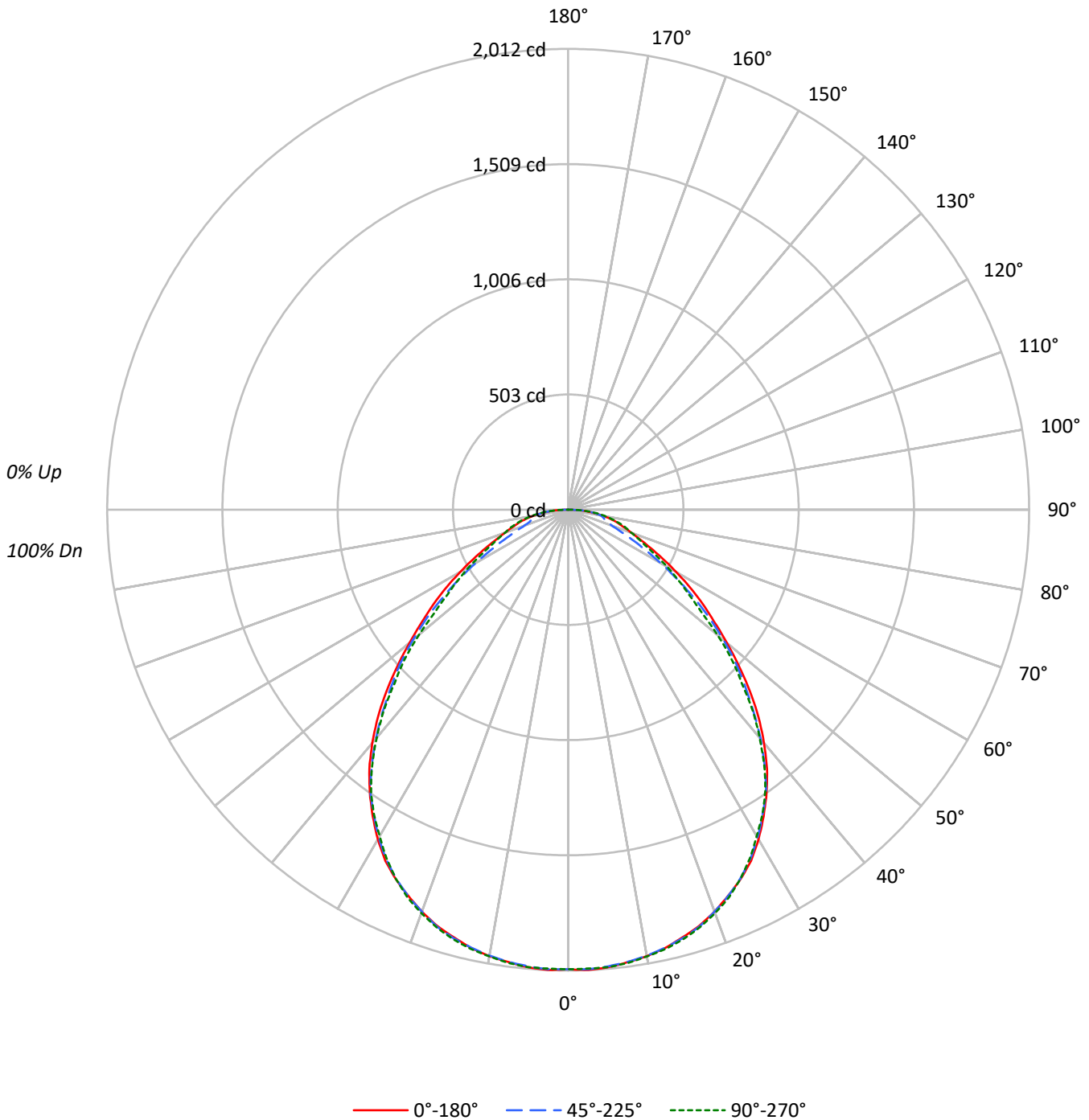
Input Watts (W): 32.736
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293685

CATALOG NUMBER: 24GR-LD5-48-A125-UNV-L83050-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P293685

CATALOG NUMBER: 24GR-LD5-48-A125-UNV-L83050-W2A1-U-3000K

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°	2699	2699	2699
5°	2709	2703	2708
10°	2705	2701	2706
15°	2692	2697	2704
20°	2674	2674	2684
25°	2643	2638	2640
30°	2582	2568	2556
35°	2480	2473	2463
40°	2336	2293	2283
45°	2137	2078	2040
50°	1889	1851	1779
55°	1680	1566	1505
60°	1463	1253	1343
65°	1263	971	1188
70°	1152	795	1149
75°	1162	856	1221
80°	1210	1116	1288
85°	1260	1326	1426



TEST NUMBER: P293685

CATALOG NUMBER: 24GR-LD5-48-A125-UNV-L83050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.3	4.1
10°-20°	545.8	11.9
20°-30°	816.9	17.8
30°-40°	933.5	20.3
40°-50°	844.0	18.4
50°-60°	607.2	13.2
60°-70°	352.0	7.7
70°-80°	208.8	4.5
80°-90°	92.5	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°	1553.0	33.8
0°-40°	2486.5	54.2
0°-60°	3937.7	85.8
0°-90°	4591.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4591.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2006	2006	2006	2006	2006	
5°	2005	2002	2001	1998	2005	191
15°	1932	1936	1936	1934	1941	546
25°	1780	1778	1777	1773	1778	819
35°	1510	1503	1506	1487	1500	941
45°	1123	1104	1092	1082	1072	863
55°	716	703	668	650	642	641
65°	397	352	305	341	373	401
75°	224	187	165	203	235	236
85°	82	88	86	99	92	87
90°	0	0	0	0	0	



TEST NUMBER: P293685

CATALOG NUMBER: 24GR-LD5-48-A125-UNV-L83050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2006.1	2006.1	2006.1	2006.1	2006.1
2.5°	2011.8	2004.7	2008.3	2006.1	2005.4
5°	2005.4	2002.5	2001.1	1998.2	2004.7
7.5°	1992.5	1990.4	1991.1	1991.8	1996.1
10°	1979.6	1976.0	1976.7	1978.2	1980.3
12.5°	1959.6	1957.4	1958.1	1959.6	1964.6
15°	1932.3	1935.9	1935.9	1933.8	1940.9
17.5°	1905.1	1904.4	1908.0	1901.5	1911.6
20°	1867.2	1867.9	1867.2	1867.9	1874.3
22.5°	1824.2	1827.8	1825.6	1825.6	1832.8
25°	1780.5	1778.4	1776.9	1773.3	1778.4
27.5°	1728.2	1723.9	1720.3	1713.2	1716.8
30°	1661.6	1662.3	1653.0	1646.6	1645.1
32.5°	1587.1	1587.1	1578.5	1573.5	1577.8
35°	1509.8	1502.6	1505.5	1486.9	1499.7
37.5°	1426.0	1414.5	1408.1	1401.6	1405.9
40°	1330.0	1315.0	1305.7	1292.8	1299.9
42.5°	1229.0	1210.4	1198.9	1189.6	1192.5
45°	1123.0	1103.7	1092.2	1082.2	1072.2
47.5°	1011.3	999.1	993.4	980.5	969.0
50°	902.4	898.1	884.5	873.8	850.1
52.5°	802.9	799.3	777.8	759.9	729.8
55°	716.2	702.6	667.5	650.3	641.7
57.5°	628.1	605.9	563.7	561.5	567.2
60°	543.6	516.4	465.5	477.0	499.2
62.5°	467.0	426.1	377.4	404.7	431.2
65°	396.8	352.4	305.1	340.9	373.1
67.5°	338.8	294.4	245.7	293.6	330.9
70°	292.9	247.8	202.0	257.1	292.2
72.5°	255.0	214.1	176.2	228.5	265.0
75°	223.5	186.9	164.7	203.4	234.9
77.5°	191.9	162.6	157.6	181.2	200.5
80°	156.1	142.5	144.0	159.0	166.2
82.5°	116.7	117.5	121.0	133.2	130.4
85°	81.6	88.1	85.9	98.8	92.4
87.5°	45.1	49.4	46.6	56.6	50.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)