

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: P293812

Luminaire Tested: **24GR-LD5-48-A125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293812
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-L93050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4130.0 lumens
Efficiency: N/A
Efficacy: 123.5 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

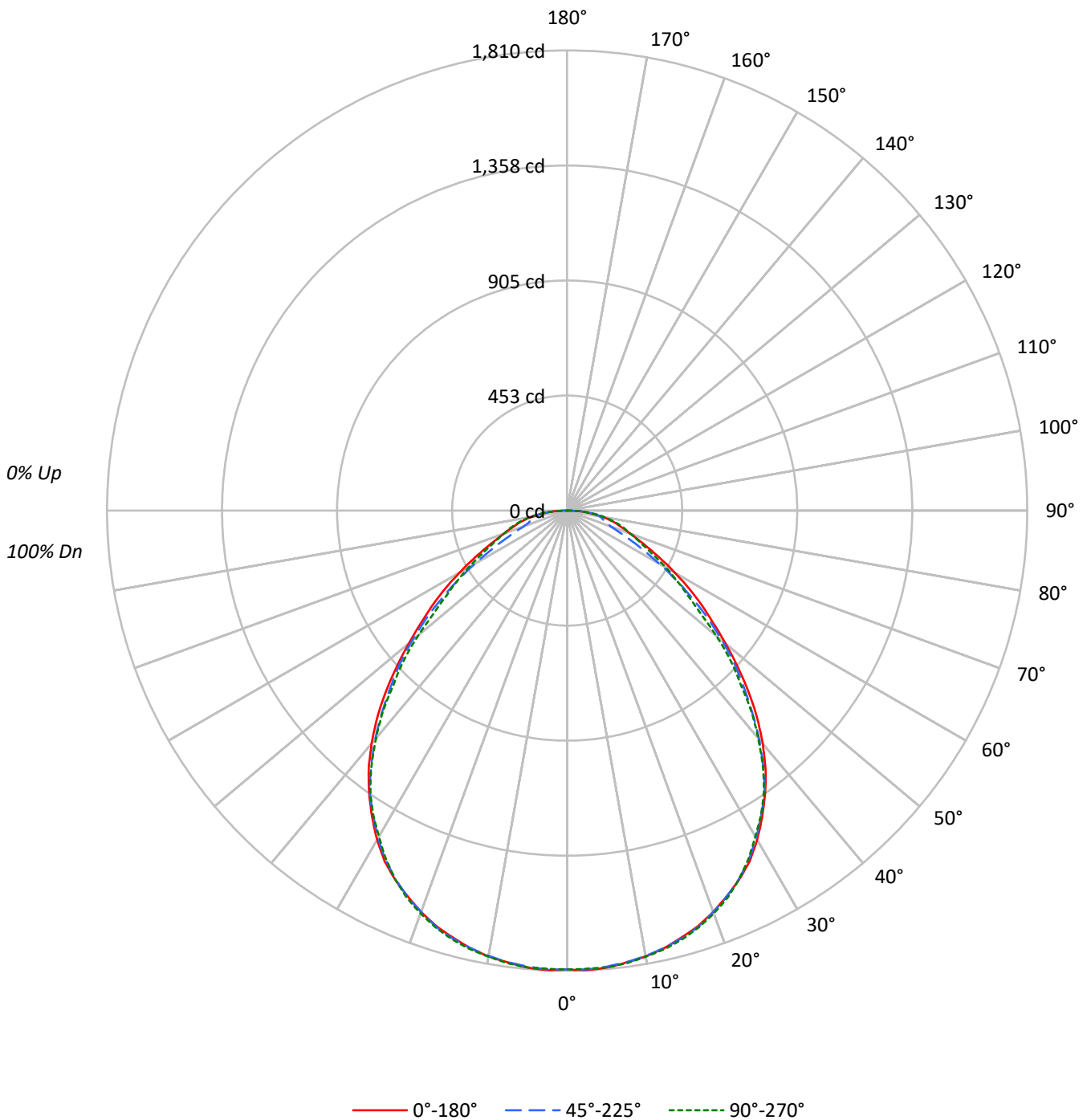
Input Watts (W): 33.452751
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293812

CATALOG NUMBER: 24GR-LD5-48-A125-UNV-L93050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P293812

CATALOG NUMBER: 24GR-LD5-48-A125-UNV-L93050-W2A1-U-3500K

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	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					100			
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2428	2428	2428
5°	2437	2431	2436
10°	2433	2430	2434
15°	2421	2426	2432
20°	2405	2405	2414
25°	2378	2373	2375
30°	2322	2310	2299
35°	2231	2224	2216
40°	2102	2063	2054
45°	1922	1870	1835
50°	1699	1666	1601
55°	1511	1409	1354
60°	1316	1127	1209
65°	1136	874	1069
70°	1037	715	1034
75°	1045	770	1098
80°	1089	1003	1158
85°	1133	1193	1283



TEST NUMBER: P293812

CATALOG NUMBER: 24GR-LD5-48-A125-UNV-L93050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.2	4.1
10°-20°	491.0	11.9
20°-30°	734.9	17.8
30°-40°	839.8	20.3
40°-50°	759.2	18.4
50°-60°	546.2	13.2
60°-70°	316.7	7.7
70°-80°	187.8	4.5
80°-90°	83.2	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°	1397.1	33.8
0°-40°	2236.8	54.2
0°-60°	3542.3	85.8
0°-90°	4130.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4130.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1805	1805	1805	1805	1805	
5°	1804	1801	1800	1798	1803	171
15°	1738	1742	1742	1740	1746	491
25°	1602	1600	1598	1595	1600	736
35°	1358	1352	1354	1338	1349	847
45°	1010	993	982	974	964	776
55°	644	632	600	585	577	576
65°	357	317	274	307	336	360
75°	201	168	148	183	211	212
85°	73	79	77	89	83	79
90°	0	0	0	0	0	



TEST NUMBER: P293812

CATALOG NUMBER: 24GR-LD5-48-A125-UNV-L93050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1804.7	1804.7	1804.7	1804.7	1804.7
2.5°	1809.8	1803.4	1806.6	1804.7	1804.0
5°	1804.0	1801.4	1800.2	1797.6	1803.4
7.5°	1792.4	1790.5	1791.1	1791.8	1795.6
10°	1780.8	1777.6	1778.3	1779.5	1781.5
12.5°	1762.8	1760.9	1761.5	1762.8	1767.3
15°	1738.3	1741.5	1741.5	1739.6	1746.0
17.5°	1713.8	1713.2	1716.4	1710.6	1719.6
20°	1679.7	1680.3	1679.7	1680.3	1686.1
22.5°	1641.0	1644.2	1642.3	1642.3	1648.7
25°	1601.7	1599.8	1598.5	1595.3	1599.8
27.5°	1554.7	1550.8	1547.6	1541.2	1544.4
30°	1494.8	1495.4	1487.0	1481.2	1479.9
32.5°	1427.8	1427.8	1420.0	1415.5	1419.4
35°	1358.2	1351.7	1354.3	1337.6	1349.2
37.5°	1282.8	1272.5	1266.7	1260.9	1264.7
40°	1196.5	1182.9	1174.5	1163.0	1169.4
42.5°	1105.6	1088.9	1078.5	1070.2	1072.7
45°	1010.3	992.9	982.5	973.5	964.5
47.5°	909.7	898.8	893.6	882.0	871.7
50°	811.8	807.9	795.7	786.0	764.8
52.5°	722.3	719.0	699.7	683.6	656.5
55°	644.3	632.1	600.5	585.0	577.3
57.5°	565.0	545.1	507.1	505.1	510.3
60°	489.0	464.5	418.8	429.1	449.1
62.5°	420.1	383.4	339.5	364.0	387.9
65°	356.9	317.0	274.5	306.7	335.7
67.5°	304.8	264.8	221.0	264.2	297.7
70°	263.5	222.9	181.7	231.3	262.9
72.5°	229.4	192.6	158.5	205.5	238.4
75°	201.0	168.2	148.2	183.0	211.3
77.5°	172.7	146.3	141.7	163.0	180.4
80°	140.5	128.2	129.5	143.0	149.5
82.5°	105.0	105.7	108.9	119.8	117.3
85°	73.4	79.2	77.3	88.9	83.1
87.5°	40.6	44.5	41.9	50.9	45.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)