

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: P293807

Luminaire Tested: **24GR-LD5-42-A125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293807
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-LD5-42-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: 3570.0 lumens
Efficiency: N/A
Efficacy: 125.2 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

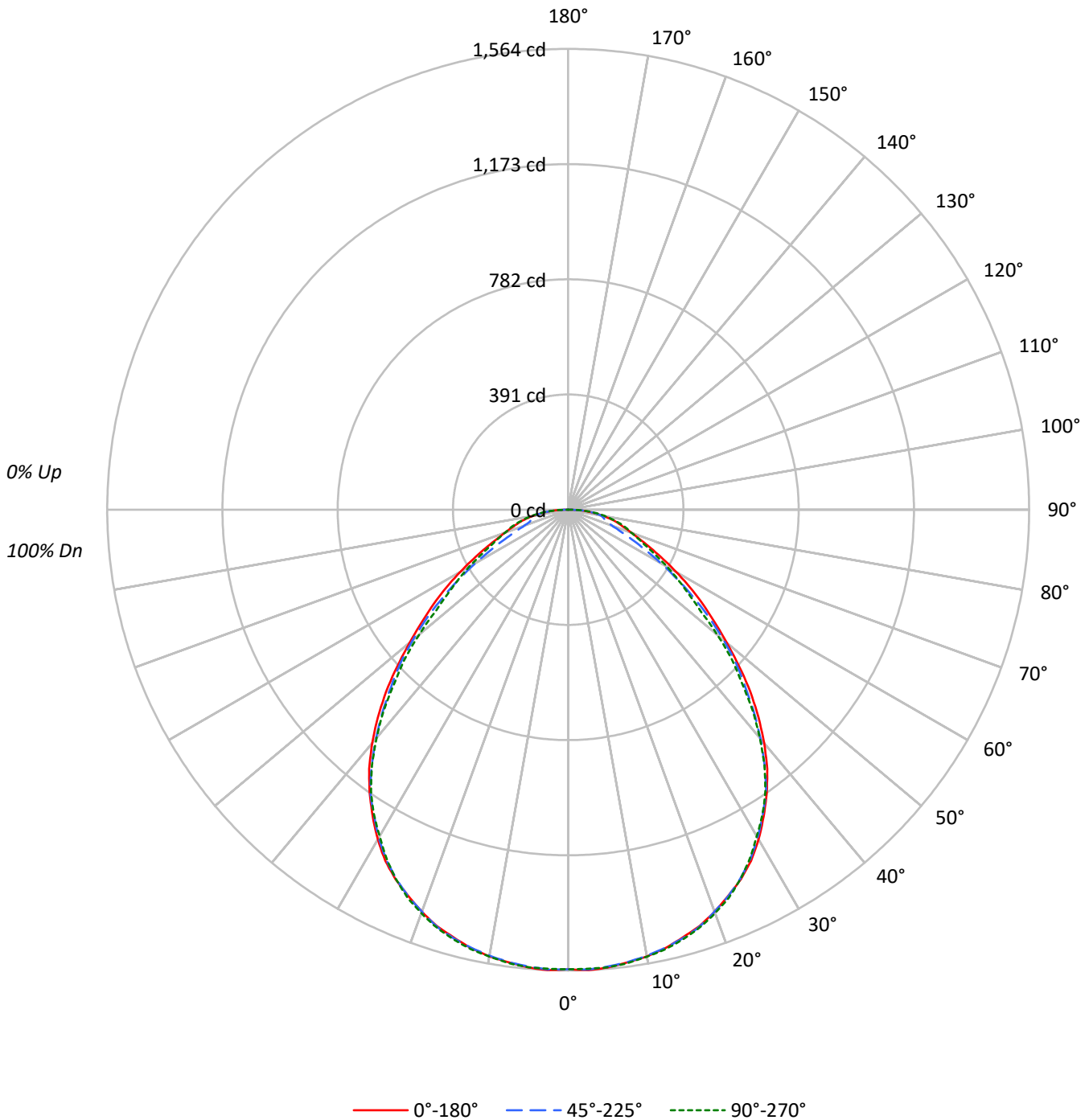
Input Watts (W): 28.524867
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293807

CATALOG NUMBER: 24GR-LD5-42-A125-UNV-L93050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P293807

CATALOG NUMBER: 24GR-LD5-42-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	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°	2099	2099	2099
5°	2106	2102	2105
10°	2103	2100	2104
15°	2093	2097	2102
20°	2079	2079	2087
25°	2055	2051	2053
30°	2007	1997	1988
35°	1928	1923	1916
40°	1816	1783	1775
45°	1662	1616	1586
50°	1469	1440	1384
55°	1306	1218	1171
60°	1137	974	1045
65°	982	755	924
70°	896	618	894
75°	904	666	950
80°	941	867	1001
85°	980	1031	1108



TEST NUMBER: P293807

CATALOG NUMBER: 24GR-LD5-42-A125-UNV-L93050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.0	4.1
10°-20°	424.4	11.9
20°-30°	635.3	17.8
30°-40°	725.9	20.3
40°-50°	656.3	18.4
50°-60°	472.2	13.2
60°-70°	273.7	7.7
70°-80°	162.4	4.5
80°-90°	71.9	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°	1207.6	33.8
0°-40°	1933.5	54.2
0°-60°	3062.0	85.8
0°-90°	3570.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3570.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1560	1560	1560	1560	1560	
5°	1559	1557	1556	1554	1559	148
15°	1503	1505	1505	1504	1509	424
25°	1384	1383	1382	1379	1383	637
35°	1174	1168	1171	1156	1166	732
45°	873	858	849	842	834	671
55°	557	546	519	506	499	498
65°	308	274	237	265	290	311
75°	174	145	128	158	183	184
85°	64	68	67	77	72	68
90°	0	0	0	0	0	



TEST NUMBER: P293807

CATALOG NUMBER: 24GR-LD5-42-A125-UNV-L93050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1560.0	1560.0	1560.0	1560.0	1560.0
2.5°	1564.4	1558.9	1561.6	1560.0	1559.4
5°	1559.4	1557.2	1556.1	1553.8	1558.9
7.5°	1549.4	1547.7	1548.3	1548.8	1552.2
10°	1539.4	1536.6	1537.1	1538.2	1539.9
12.5°	1523.8	1522.1	1522.7	1523.8	1527.7
15°	1502.6	1505.4	1505.4	1503.7	1509.3
17.5°	1481.4	1480.9	1483.7	1478.7	1486.5
20°	1451.9	1452.5	1451.9	1452.5	1457.5
22.5°	1418.5	1421.3	1419.6	1419.6	1425.2
25°	1384.5	1382.9	1381.7	1379.0	1382.9
27.5°	1343.9	1340.5	1337.8	1332.2	1335.0
30°	1292.1	1292.6	1285.4	1280.4	1279.3
32.5°	1234.2	1234.2	1227.5	1223.6	1226.9
35°	1174.0	1168.4	1170.7	1156.2	1166.2
37.5°	1108.9	1099.9	1094.9	1089.9	1093.3
40°	1034.2	1022.5	1015.3	1005.3	1010.8
42.5°	955.7	941.2	932.3	925.1	927.3
45°	873.3	858.2	849.3	841.5	833.7
47.5°	786.4	776.9	772.5	762.4	753.5
50°	701.7	698.4	687.8	679.5	661.1
52.5°	624.3	621.5	604.8	590.9	567.5
55°	556.9	546.4	519.1	505.7	499.0
57.5°	488.4	471.2	438.3	436.6	441.1
60°	422.7	401.5	362.0	370.9	388.2
62.5°	363.1	331.4	293.5	314.7	335.3
65°	308.5	274.0	237.3	265.1	290.2
67.5°	263.4	228.9	191.0	228.3	257.3
70°	227.8	192.7	157.1	199.9	227.2
72.5°	198.3	166.5	137.0	177.7	206.1
75°	173.8	145.4	128.1	158.2	182.7
77.5°	149.3	126.4	122.5	140.9	155.9
80°	121.4	110.8	111.9	123.6	129.2
82.5°	90.8	91.3	94.1	103.6	101.4
85°	63.5	68.5	66.8	76.9	71.8
87.5°	35.1	38.4	36.2	44.0	39.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)