

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: P293303

Luminaire Tested: **24GR-LD5-42-F125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293303  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-42-F125-UNV-L93050-W2A1-U-3500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3563.0 lumens  
Efficiency: N/A  
Efficacy: 124.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

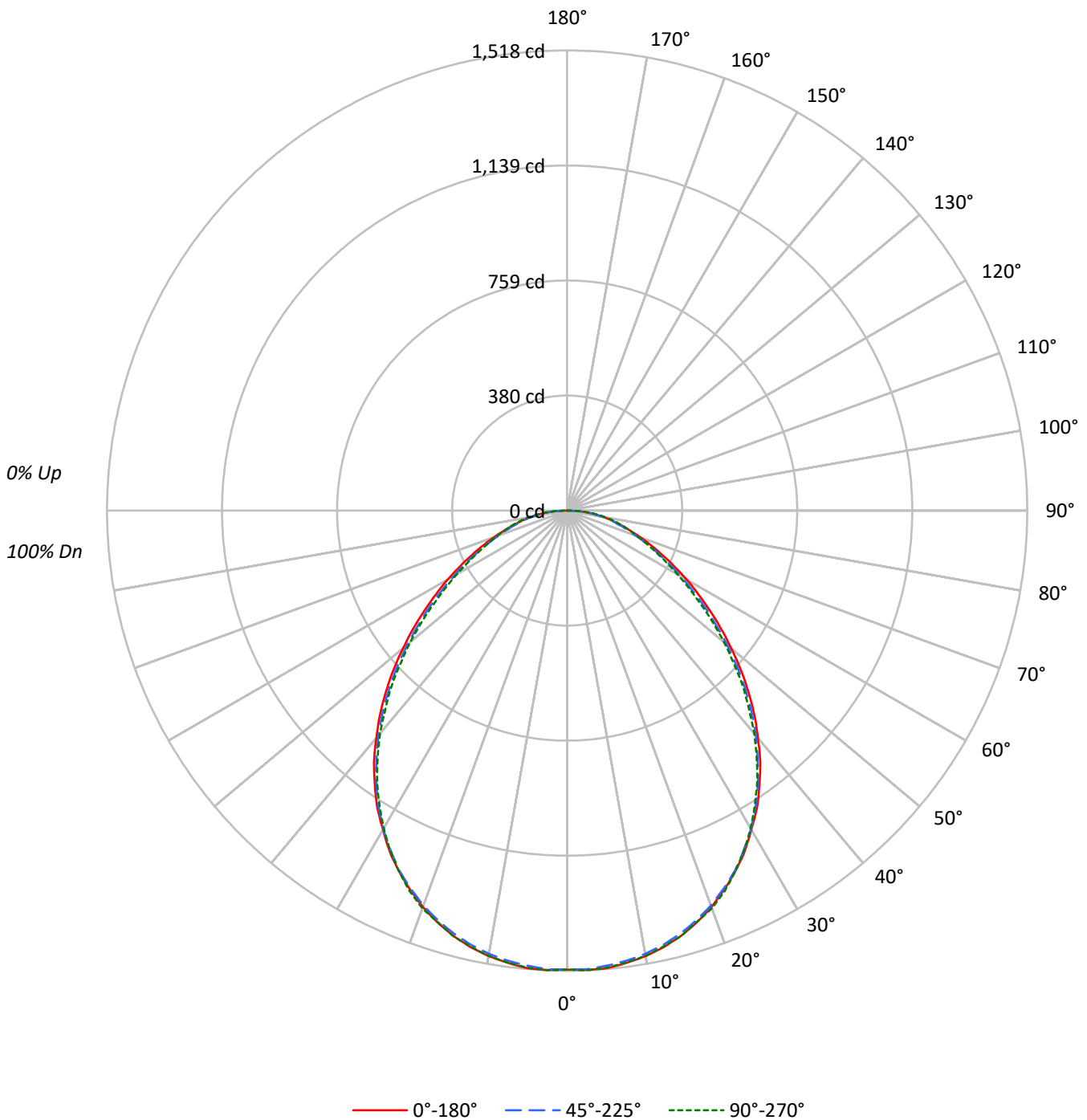
Input Watts (W): 28.524867  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P293303

CATALOG NUMBER: 24GR-LD5-42-F125-UNV-L93050-W2A1-U-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P293303

CATALOG NUMBER: 24GR-LD5-42-F125-UNV-L93050-W2A1-U-3500K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2037	2037	2037
5°	2047	2035	2044
10°	2038	2029	2038
15°	2022	2012	2024
20°	1993	1985	1999
25°	1950	1945	1949
30°	1888	1885	1880
35°	1817	1803	1796
40°	1720	1700	1686
45°	1609	1579	1560
50°	1478	1438	1414
55°	1348	1299	1261
60°	1224	1158	1129
65°	1103	1041	1023
70°	1010	944	971
75°	944	900	967
80°	937	919	1010
85°	954	963	1101



TEST NUMBER: P293303

CATALOG NUMBER: 24GR-LD5-42-F125-UNV-L93050-W2A1-U-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.3	4.0
10°-20°	407.4	11.4
20°-30°	601.9	16.9
30°-40°	684.3	19.2
40°-50°	639.0	17.9
50°-60°	497.0	13.9
60°-70°	329.8	9.3
70°-80°	190.8	5.4
80°-90°	69.4	1.9
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°	1152.7	32.4
0°-40°	1837.0	51.6
0°-60°	2973.0	83.4
0°-90°	3563.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3563.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1514	1514	1514	1514	1514	
5°	1515	1508	1507	1510	1513	144
15°	1452	1445	1444	1444	1453	409
25°	1313	1308	1310	1307	1313	604
35°	1106	1100	1098	1090	1093	691
45°	845	839	830	819	820	651
55°	575	566	554	539	537	515
65°	346	336	327	321	321	346
75°	182	177	173	181	186	194
85°	62	61	62	71	71	67
90°	0	0	0	0	0	



TEST NUMBER: P293303

CATALOG NUMBER: 24GR-LD5-42-F125-UNV-L93050-W2A1-U-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1514.3	1514.3	1514.3	1514.3	1514.3
2.5°	1516.5	1512.0	1514.3	1512.6	1517.6
5°	1515.4	1507.6	1507.0	1509.8	1513.2
7.5°	1504.8	1496.5	1498.1	1498.1	1503.7
10°	1492.0	1483.6	1484.8	1485.3	1491.4
12.5°	1474.7	1466.4	1466.9	1466.4	1472.5
15°	1451.9	1444.7	1444.1	1443.5	1453.0
17.5°	1424.1	1414.0	1417.4	1417.9	1422.9
20°	1391.8	1384.0	1386.2	1385.6	1396.2
22.5°	1353.3	1347.8	1349.4	1348.3	1358.3
25°	1313.2	1307.7	1309.9	1307.1	1312.7
27.5°	1268.1	1264.2	1262.0	1260.3	1264.2
30°	1215.2	1213.0	1213.0	1205.7	1210.2
32.5°	1165.1	1157.8	1157.8	1155.1	1152.3
35°	1106.0	1100.5	1097.7	1089.9	1093.2
37.5°	1047.0	1034.2	1033.1	1027.0	1027.0
40°	979.1	971.8	967.9	961.2	960.1
42.5°	914.5	907.2	900.5	889.4	887.2
45°	845.4	838.7	829.8	819.2	819.8
47.5°	776.9	767.4	759.1	746.3	744.6
50°	706.2	699.5	687.2	676.1	675.5
52.5°	639.9	629.3	618.2	604.8	604.8
55°	574.7	566.4	553.6	539.1	537.4
57.5°	512.4	504.6	490.1	479.5	476.7
60°	455.0	443.9	430.5	421.6	419.4
62.5°	397.6	387.6	377.6	368.7	368.1
65°	346.4	335.8	326.9	320.8	321.3
67.5°	300.2	291.3	281.2	279.6	280.1
70°	256.7	247.3	240.0	243.9	246.7
72.5°	215.5	210.5	205.5	211.1	215.0
75°	181.6	177.1	173.2	181.0	186.0
77.5°	150.4	147.0	146.5	153.2	157.6
80°	120.9	117.0	118.6	126.4	130.3
82.5°	91.9	89.1	89.7	99.1	101.9
85°	61.8	60.7	62.4	70.7	71.3
87.5°	32.9	32.9	34.0	39.0	37.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)