

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: P293488

Luminaire Tested: **24GR-LD5-42-A-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293488
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-42-A-UNV-L82765-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4233.0 lumens
Efficiency: N/A
Efficacy: 149.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

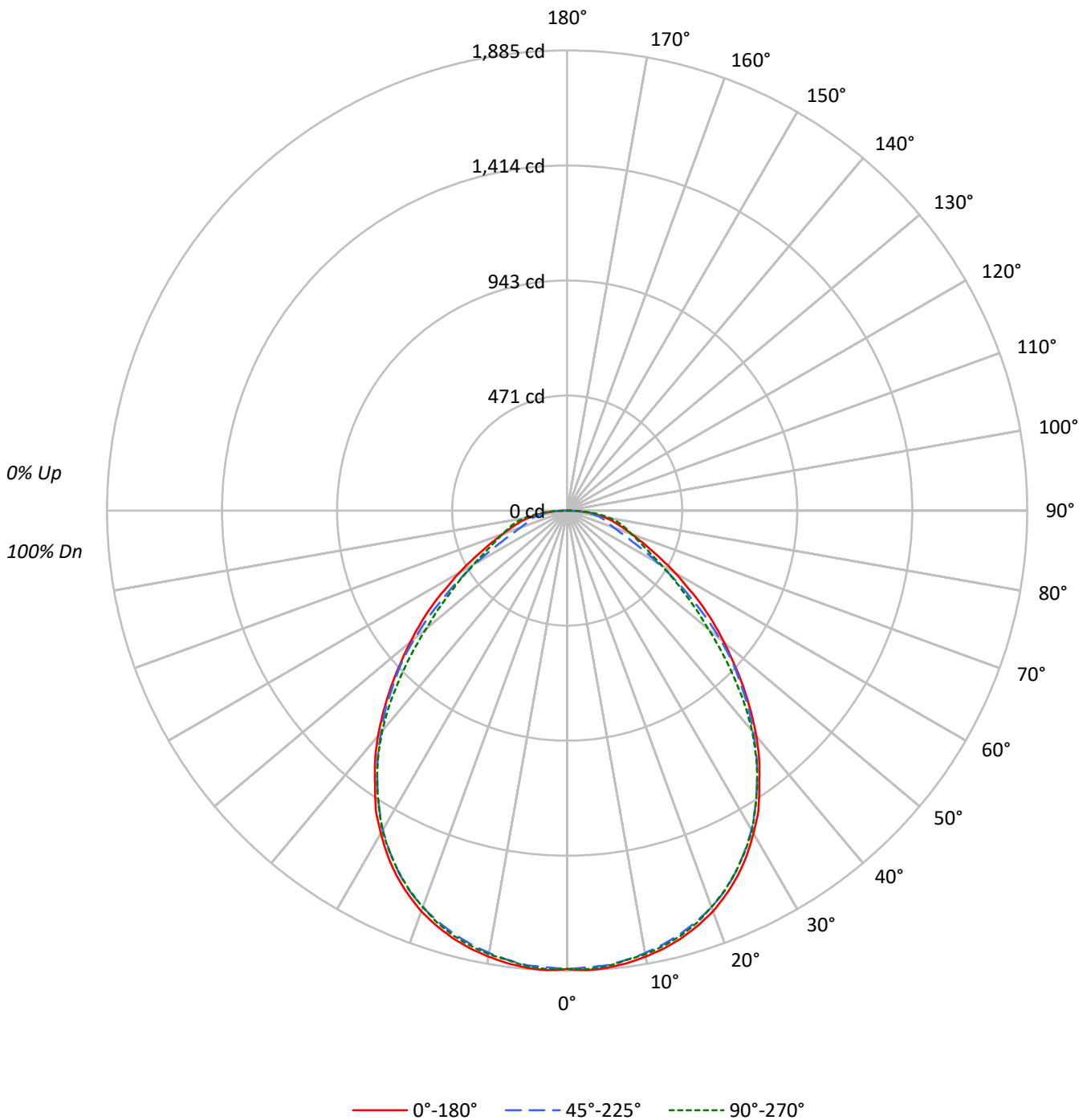
Input Watts (W): 28.365
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293488

CATALOG NUMBER: 24GR-LD5-42-A-UNV-L82765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P293488

CATALOG NUMBER: 24GR-LD5-42-A-UNV-L82765-W2A1-U-4000K

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	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	65	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	46	72	60	52	46	58	51	46	57	50	45	55	49	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°	2527	2527	2527
5°	2539	2525	2531
10°	2535	2514	2521
15°	2525	2500	2511
20°	2501	2476	2475
25°	2452	2426	2424
30°	2371	2347	2352
35°	2252	2227	2230
40°	2118	2081	2069
45°	1941	1915	1839
50°	1755	1707	1578
55°	1575	1434	1361
60°	1380	1154	1197
65°	1203	908	1101
70°	1101	792	1101
75°	1102	843	1214
80°	1196	993	1383
85°	1312	1121	1484



TEST NUMBER: P293488

CATALOG NUMBER: 24GR-LD5-42-A-UNV-L82765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.9	4.2
10°-20°	507.6	12.0
20°-30°	752.6	17.8
30°-40°	849.0	20.1
40°-50°	769.0	18.2
50°-60°	554.8	13.1
60°-70°	331.2	7.8
70°-80°	204.7	4.8
80°-90°	86.2	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°	1438.0	34.0
0°-40°	2287.0	54.0
0°-60°	3610.8	85.3
0°-90°	4233.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4233.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1878	1878	1878	1878	1878	
5°	1880	1878	1870	1868	1874	179
15°	1813	1802	1794	1795	1802	511
25°	1652	1643	1634	1628	1633	759
35°	1371	1369	1356	1356	1358	858
45°	1020	1014	1006	982	966	786
55°	672	651	611	581	580	600
65°	378	333	285	324	346	380
75°	212	184	162	202	234	226
85°	85	74	73	95	96	89
90°	0	0	0	0	0	



TEST NUMBER: P293488

CATALOG NUMBER: 24GR-LD5-42-A-UNV-L82765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1878.1	1878.1	1878.1	1878.1	1878.1
2.5°	1884.7	1879.4	1872.9	1876.8	1880.1
5°	1880.1	1877.5	1869.6	1867.7	1874.2
7.5°	1870.3	1863.7	1856.6	1859.8	1857.2
10°	1855.2	1849.4	1840.2	1840.9	1845.4
12.5°	1836.9	1829.7	1819.9	1822.5	1826.5
15°	1812.7	1801.6	1794.4	1795.1	1802.3
17.5°	1782.0	1773.5	1764.3	1766.3	1769.6
20°	1746.7	1742.1	1729.0	1725.1	1728.4
22.5°	1702.2	1693.7	1686.5	1684.6	1685.2
25°	1651.9	1642.7	1634.2	1628.3	1632.9
27.5°	1593.0	1585.2	1574.0	1572.1	1576.0
30°	1526.3	1520.4	1510.6	1508.0	1513.9
32.5°	1458.3	1448.5	1434.8	1434.8	1436.1
35°	1371.3	1369.4	1355.6	1356.3	1357.6
37.5°	1292.9	1283.7	1275.8	1268.0	1271.9
40°	1205.9	1195.4	1185.0	1179.7	1177.8
42.5°	1112.4	1104.5	1099.9	1081.0	1076.4
45°	1020.2	1013.6	1006.4	981.6	966.5
47.5°	926.0	924.7	918.8	875.0	859.9
50°	838.4	836.4	815.5	769.0	754.0
52.5°	755.3	742.2	714.8	669.0	666.4
55°	671.6	650.7	611.4	581.4	580.1
57.5°	583.3	558.5	518.6	502.2	510.7
60°	512.7	474.8	429.0	431.0	444.7
62.5°	439.5	396.9	351.8	371.4	387.8
65°	378.0	332.9	285.1	323.7	345.9
67.5°	324.4	282.5	236.7	288.4	310.0
70°	279.9	245.9	201.4	255.7	279.9
72.5°	244.6	213.2	178.5	229.5	257.7
75°	211.9	183.8	162.2	202.1	233.5
77.5°	183.8	156.3	146.5	178.5	209.3
80°	154.3	129.5	128.2	155.6	178.5
82.5°	120.3	103.3	103.3	130.1	143.9
85°	85.0	74.5	72.6	94.8	96.1
87.5°	43.8	41.9	37.9	49.7	49.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)