

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: P293611

Luminaire Tested: **24GR-LD5-42-A-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293611
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-L92765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3323.0 lumens
Efficiency: N/A
Efficacy: 119.1 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

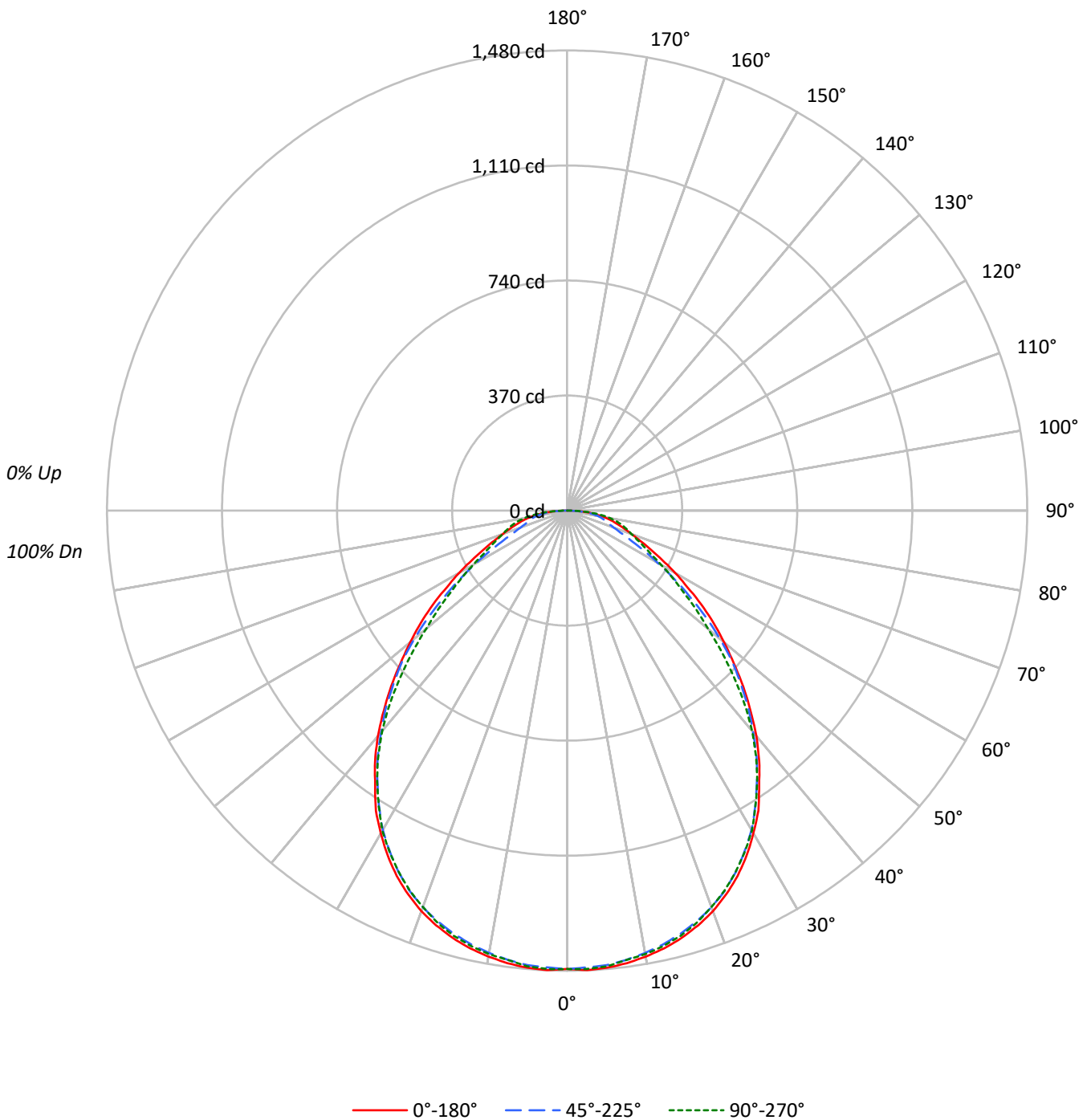
Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	1984	1984	1984
5°	1993	1982	1987
10°	1990	1974	1979
15°	1982	1962	1971
20°	1963	1943	1943
25°	1925	1905	1903
30°	1862	1842	1846
35°	1768	1748	1750
40°	1663	1634	1624
45°	1524	1503	1444
50°	1378	1340	1239
55°	1237	1126	1068
60°	1083	906	939
65°	945	713	865
70°	864	622	864
75°	865	662	953
80°	939	779	1086
85°	1030	880	1166



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.6	4.2
10°-20°	398.4	12.0
20°-30°	590.8	17.8
30°-40°	666.5	20.1
40°-50°	603.7	18.2
50°-60°	435.5	13.1
60°-70°	260.0	7.8
70°-80°	160.7	4.8
80°-90°	67.7	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°	1128.9	34.0
0°-40°	1795.4	54.0
0°-60°	2834.6	85.3
0°-90°	3323.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3323.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1474	1474	1474	1474	1474	
5°	1476	1474	1468	1466	1471	140
15°	1423	1414	1409	1409	1415	401
25°	1297	1290	1283	1278	1282	596
35°	1076	1075	1064	1065	1066	674
45°	801	796	790	771	759	617
55°	527	511	480	456	455	471
65°	297	261	224	254	272	298
75°	166	144	127	159	183	178
85°	67	58	57	74	76	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1474.4	1474.4	1474.4	1474.4	1474.4
2.5°	1479.5	1475.4	1470.3	1473.3	1475.9
5°	1475.9	1473.9	1467.7	1466.2	1471.3
7.5°	1468.2	1463.1	1457.4	1460.0	1457.9
10°	1456.4	1451.8	1444.6	1445.1	1448.7
12.5°	1442.0	1436.4	1428.7	1430.7	1433.8
15°	1423.0	1414.3	1408.7	1409.2	1414.8
17.5°	1398.9	1392.2	1385.1	1386.6	1389.2
20°	1371.2	1367.6	1357.3	1354.2	1356.8
22.5°	1336.3	1329.6	1324.0	1322.4	1322.9
25°	1296.8	1289.6	1282.9	1278.3	1281.9
27.5°	1250.6	1244.4	1235.7	1234.1	1237.2
30°	1198.2	1193.6	1185.9	1183.8	1188.4
32.5°	1144.8	1137.1	1126.3	1126.3	1127.3
35°	1076.5	1075.0	1064.2	1064.7	1065.7
37.5°	1014.9	1007.7	1001.6	995.4	998.5
40°	946.6	938.4	930.2	926.1	924.6
42.5°	873.2	867.1	863.5	848.6	845.0
45°	800.8	795.7	790.1	770.6	758.7
47.5°	726.9	725.9	721.3	686.9	675.1
50°	658.1	656.6	640.2	603.7	591.9
52.5°	592.9	582.7	561.1	525.2	523.1
55°	527.2	510.8	480.0	456.4	455.4
57.5°	457.9	438.4	407.1	394.3	400.9
60°	402.5	372.7	336.8	338.3	349.1
62.5°	345.0	311.6	276.2	291.6	304.4
65°	296.7	261.3	223.8	254.1	271.6
67.5°	254.6	221.8	185.8	226.4	243.3
70°	219.7	193.0	158.1	200.7	219.7
72.5°	192.0	167.4	140.1	180.2	202.3
75°	166.3	144.3	127.3	158.6	183.3
77.5°	144.3	122.7	115.0	140.1	164.3
80°	121.2	101.6	100.6	122.2	140.1
82.5°	94.5	81.1	81.1	102.2	112.9
85°	66.7	58.5	57.0	74.4	75.5
87.5°	34.4	32.9	29.8	39.0	39.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)