

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: P293621

Luminaire Tested: **24GR-LD5-48-A-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293621
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-LD5-48-A-UNV-L92765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3998.0 lumens
Efficiency: N/A
Efficacy: 122.8 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

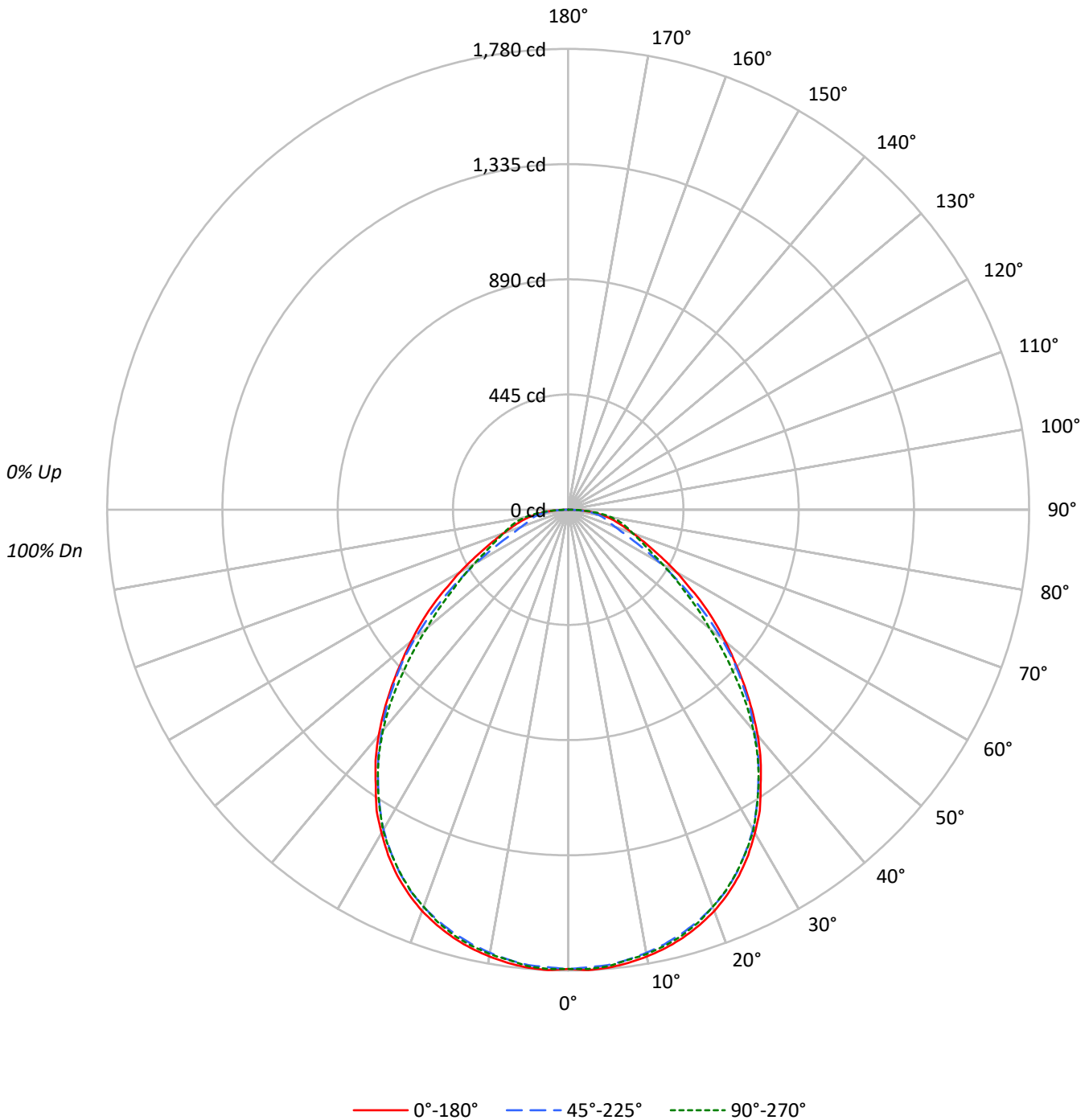
Input Watts (W): 32.55
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2387	2387	2387
5°	2398	2385	2391
10°	2394	2375	2381
15°	2385	2361	2371
20°	2362	2338	2337
25°	2316	2291	2290
30°	2240	2217	2221
35°	2127	2103	2106
40°	2000	1966	1954
45°	1833	1809	1737
50°	1657	1612	1491
55°	1488	1355	1285
60°	1303	1090	1130
65°	1137	857	1040
70°	1040	748	1040
75°	1040	796	1146
80°	1130	938	1306
85°	1240	1059	1402



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.0	4.2
10°-20°	479.4	12.0
20°-30°	710.8	17.8
30°-40°	801.9	20.1
40°-50°	726.3	18.2
50°-60°	524.0	13.1
60°-70°	312.9	7.8
70°-80°	193.4	4.8
80°-90°	81.5	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°	1358.2	34.0
0°-40°	2160.1	54.0
0°-60°	3410.3	85.3
0°-90°	3998.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3998.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1774	1774	1774	1774	1774	
5°	1776	1773	1766	1764	1770	169
15°	1712	1702	1695	1695	1702	483
25°	1560	1552	1544	1538	1542	717
35°	1295	1293	1280	1281	1282	810
45°	964	957	951	927	913	742
55°	634	615	578	549	548	566
65°	357	314	269	306	327	359
75°	200	174	153	191	220	214
85°	80	70	69	90	91	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1773.9	1773.9	1773.9	1773.9	1773.9
2.5°	1780.0	1775.1	1768.9	1772.6	1775.7
5°	1775.7	1773.2	1765.8	1764.0	1770.2
7.5°	1766.5	1760.3	1753.5	1756.6	1754.1
10°	1752.2	1746.7	1738.0	1738.7	1743.0
12.5°	1735.0	1728.2	1718.9	1721.4	1725.1
15°	1712.1	1701.6	1694.8	1695.4	1702.2
17.5°	1683.1	1675.0	1666.4	1668.2	1671.3
20°	1649.7	1645.4	1633.0	1629.3	1632.4
22.5°	1607.7	1599.7	1592.9	1591.0	1591.7
25°	1560.2	1551.5	1543.5	1537.9	1542.3
27.5°	1504.6	1497.2	1486.7	1484.8	1488.5
30°	1441.6	1436.0	1426.8	1424.3	1429.8
32.5°	1377.3	1368.1	1355.1	1355.1	1356.3
35°	1295.2	1293.3	1280.4	1281.0	1282.2
37.5°	1221.1	1212.4	1205.0	1197.6	1201.3
40°	1138.9	1129.0	1119.2	1114.2	1112.4
42.5°	1050.6	1043.2	1038.9	1021.0	1016.6
45°	963.5	957.3	950.6	927.1	912.9
47.5°	874.6	873.3	867.8	826.4	812.2
50°	791.8	790.0	770.2	726.3	712.1
52.5°	713.4	701.0	675.1	631.8	629.4
55°	634.3	614.6	577.5	549.1	547.8
57.5°	550.9	527.5	489.8	474.3	482.4
60°	484.2	448.4	405.2	407.0	420.0
62.5°	415.1	374.9	332.3	350.8	366.3
65°	357.0	314.4	269.3	305.7	326.7
67.5°	306.4	266.8	223.6	272.4	292.8
70°	264.4	232.2	190.2	241.5	264.4
72.5°	231.0	201.4	168.6	216.8	243.4
75°	200.1	173.6	153.2	190.9	220.5
77.5°	173.6	147.6	138.4	168.6	197.6
80°	145.8	122.3	121.1	147.0	168.6
82.5°	113.6	97.6	97.6	122.9	135.9
85°	80.3	70.4	68.6	89.6	90.8
87.5°	41.4	39.5	35.8	46.9	46.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)