

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: P293628

Luminaire Tested: **24GR-LD5-48-A-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293628  
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-6500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4656.0 lumens  
Efficiency: N/A  
Efficacy: 135.3 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

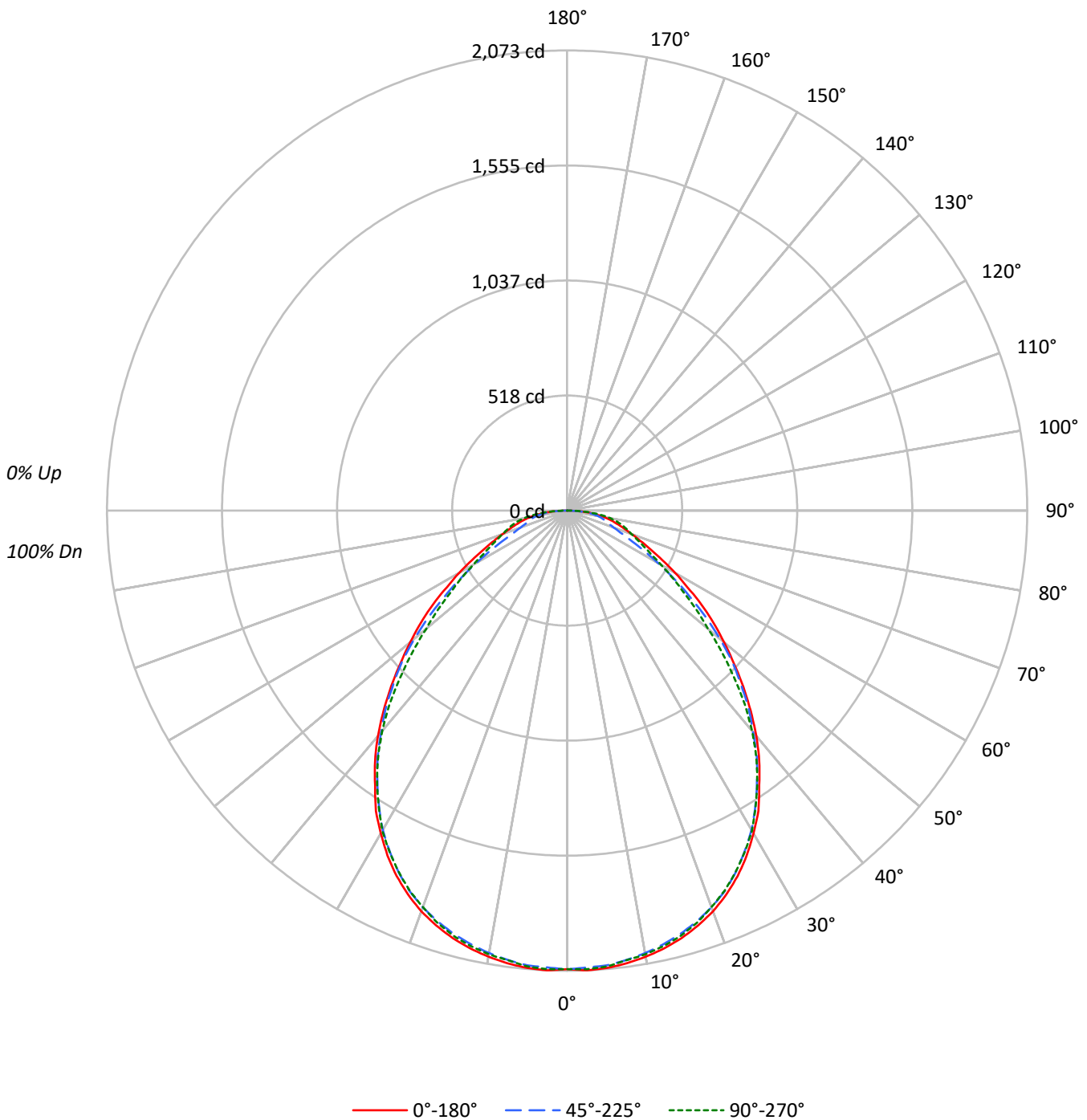
Input Watts (W): 34.41  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2780	2780	2780
5°	2793	2778	2784
10°	2788	2765	2773
15°	2777	2749	2761
20°	2751	2723	2722
25°	2697	2669	2666
30°	2608	2582	2587
35°	2478	2449	2453
40°	2330	2289	2275
45°	2135	2106	2023
50°	1930	1878	1736
55°	1733	1578	1497
60°	1517	1270	1316
65°	1324	998	1211
70°	1211	871	1211
75°	1212	927	1335
80°	1316	1093	1522
85°	1443	1232	1632



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.6	4.2
10°-20°	558.3	12.0
20°-30°	827.8	17.8
30°-40°	933.9	20.1
40°-50°	845.8	18.2
50°-60°	610.2	13.1
60°-70°	364.3	7.8
70°-80°	225.2	4.8
80°-90°	94.9	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°	1581.7	34.0
0°-40°	2515.6	54.0
0°-60°	3971.6	85.3
0°-90°	4656.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4656.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2066	2066	2066	2066	2066	
5°	2068	2065	2056	2054	2062	196
15°	1994	1982	1974	1974	1982	562
25°	1817	1807	1798	1791	1796	835
35°	1508	1506	1491	1492	1493	944
45°	1122	1115	1107	1080	1063	865
55°	739	716	672	640	638	659
65°	416	366	314	356	380	418
75°	233	202	178	222	257	249
85°	94	82	80	104	106	98
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2065.8	2065.8	2065.8	2065.8	2065.8
2.5°	2073.0	2067.3	2060.1	2064.4	2068.0
5°	2068.0	2065.1	2056.5	2054.3	2061.5
7.5°	2057.2	2050.0	2042.1	2045.7	2042.8
10°	2040.6	2034.2	2024.1	2024.8	2029.8
12.5°	2020.5	2012.6	2001.8	2004.7	2009.0
15°	1993.9	1981.7	1973.7	1974.5	1982.4
17.5°	1960.1	1950.7	1940.7	1942.8	1946.4
20°	1921.2	1916.2	1901.8	1897.5	1901.1
22.5°	1872.3	1863.0	1855.1	1852.9	1853.6
25°	1816.9	1806.9	1797.5	1791.0	1796.1
27.5°	1752.2	1743.6	1731.3	1729.2	1733.5
30°	1678.8	1672.4	1661.6	1658.7	1665.2
32.5°	1604.0	1593.2	1578.1	1578.1	1579.6
35°	1508.4	1506.2	1491.1	1491.8	1493.3
37.5°	1422.0	1412.0	1403.3	1394.7	1399.0
40°	1326.4	1314.9	1303.4	1297.6	1295.4
42.5°	1223.5	1214.9	1209.9	1189.0	1184.0
45°	1122.1	1114.9	1107.0	1079.7	1063.1
47.5°	1018.5	1017.1	1010.6	962.4	945.9
50°	922.1	920.0	897.0	845.9	829.3
52.5°	830.8	816.4	786.2	735.8	733.0
55°	738.7	715.7	672.5	639.5	638.0
57.5°	641.6	614.3	570.4	552.4	561.8
60°	563.9	522.2	471.9	474.0	489.1
62.5°	483.4	436.6	387.0	408.6	426.5
65°	415.8	366.1	313.6	356.1	380.5
67.5°	356.8	310.7	260.4	317.2	340.9
70°	307.9	270.5	221.5	281.2	307.9
72.5°	269.0	234.5	196.4	252.5	283.4
75°	233.1	202.1	178.4	222.3	256.8
77.5°	202.1	171.9	161.1	196.4	230.2
80°	169.8	142.4	141.0	171.2	196.4
82.5°	132.4	113.6	113.6	143.1	158.2
85°	93.5	82.0	79.8	104.3	105.7
87.5°	48.2	46.0	41.7	54.7	54.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)