

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: P293500

Luminaire Tested: **24GR-LD5-48-A-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293500
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-L82765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5101.0 lumens
Efficiency: N/A
Efficacy: 151.1 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

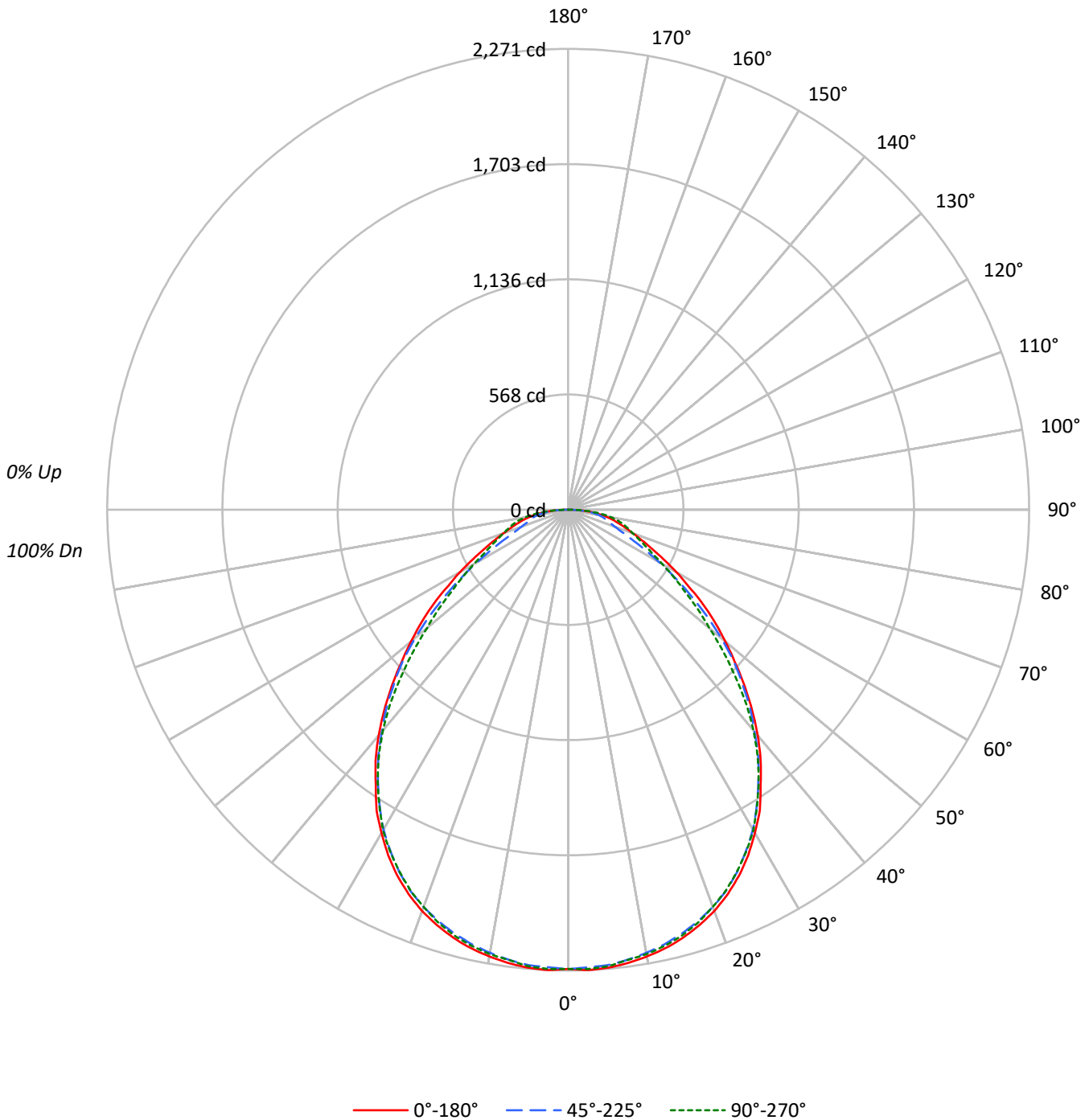
Input Watts (W): 33.759
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3045	3045	3045
5°	3060	3043	3050
10°	3055	3030	3038
15°	3043	3012	3025
20°	3014	2983	2982
25°	2955	2924	2921
30°	2858	2828	2834
35°	2714	2683	2687
40°	2552	2508	2493
45°	2339	2308	2216
50°	2115	2057	1902
55°	1898	1728	1640
60°	1662	1391	1442
65°	1450	1094	1327
70°	1327	955	1327
75°	1327	1016	1462
80°	1441	1197	1667
85°	1581	1351	1788



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.3	4.2
10°-20°	611.6	12.0
20°-30°	906.9	17.8
30°-40°	1023.1	20.1
40°-50°	926.6	18.2
50°-60°	668.5	13.1
60°-70°	399.2	7.8
70°-80°	246.7	4.8
80°-90°	103.9	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°	1732.9	34.0
0°-40°	2756.0	54.0
0°-60°	4351.2	85.3
0°-90°	5101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5101.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2263	2263	2263	2263	2263	
5°	2266	2262	2253	2251	2258	215
15°	2184	2171	2162	2163	2172	616
25°	1991	1980	1969	1962	1968	914
35°	1652	1650	1634	1634	1636	1034
45°	1229	1222	1213	1183	1165	947
55°	809	784	737	701	699	722
65°	456	401	344	390	417	458
75°	255	221	195	244	281	273
85°	102	90	88	114	116	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2263.3	2263.3	2263.3	2263.3	2263.3
2.5°	2271.1	2264.8	2257.0	2261.7	2265.6
5°	2265.6	2262.5	2253.0	2250.6	2258.5
7.5°	2253.8	2245.9	2237.2	2241.2	2238.0
10°	2235.7	2228.6	2217.5	2218.3	2223.9
12.5°	2213.6	2204.9	2193.1	2196.3	2201.0
15°	2184.5	2171.1	2162.4	2163.2	2171.8
17.5°	2147.4	2137.2	2126.1	2128.5	2132.4
20°	2104.9	2099.3	2083.6	2078.9	2082.8
22.5°	2051.3	2041.0	2032.4	2030.0	2030.8
25°	1990.6	1979.6	1969.3	1962.2	1967.7
27.5°	1919.7	1910.2	1896.8	1894.5	1899.2
30°	1839.3	1832.2	1820.4	1817.2	1824.3
32.5°	1757.3	1745.5	1729.0	1729.0	1730.5
35°	1652.5	1650.2	1633.6	1634.4	1636.0
37.5°	1558.0	1546.9	1537.5	1528.0	1532.7
40°	1453.1	1440.5	1427.9	1421.6	1419.3
42.5°	1340.5	1331.0	1325.5	1302.6	1297.1
45°	1229.3	1221.5	1212.8	1182.8	1164.7
47.5°	1115.9	1114.3	1107.2	1054.4	1036.3
50°	1010.3	1007.9	982.7	926.7	908.6
52.5°	910.2	894.4	861.3	806.2	803.0
55°	809.3	784.1	736.8	700.6	699.0
57.5°	702.9	673.0	624.9	605.2	615.5
60°	617.8	572.1	517.0	519.3	535.9
62.5°	529.6	478.3	424.0	447.6	467.3
65°	455.5	401.1	343.6	390.1	416.9
67.5°	390.9	340.4	285.3	347.5	373.5
70°	337.3	296.3	242.7	308.1	337.3
72.5°	294.7	256.9	215.1	276.6	310.5
75°	255.3	221.4	195.4	243.5	281.3
77.5°	221.4	188.3	176.5	215.1	252.2
80°	186.0	156.0	154.5	187.6	215.1
82.5°	145.0	124.5	124.5	156.8	173.4
85°	102.4	89.8	87.5	114.3	115.8
87.5°	52.8	50.4	45.7	59.9	59.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)