

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: P293658

Luminaire Tested: **24GR-LD5-85-A-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293658
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-LD5-85-A-UNV-L92765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7175.0 lumens
Efficiency: N/A
Efficacy: 114.6 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

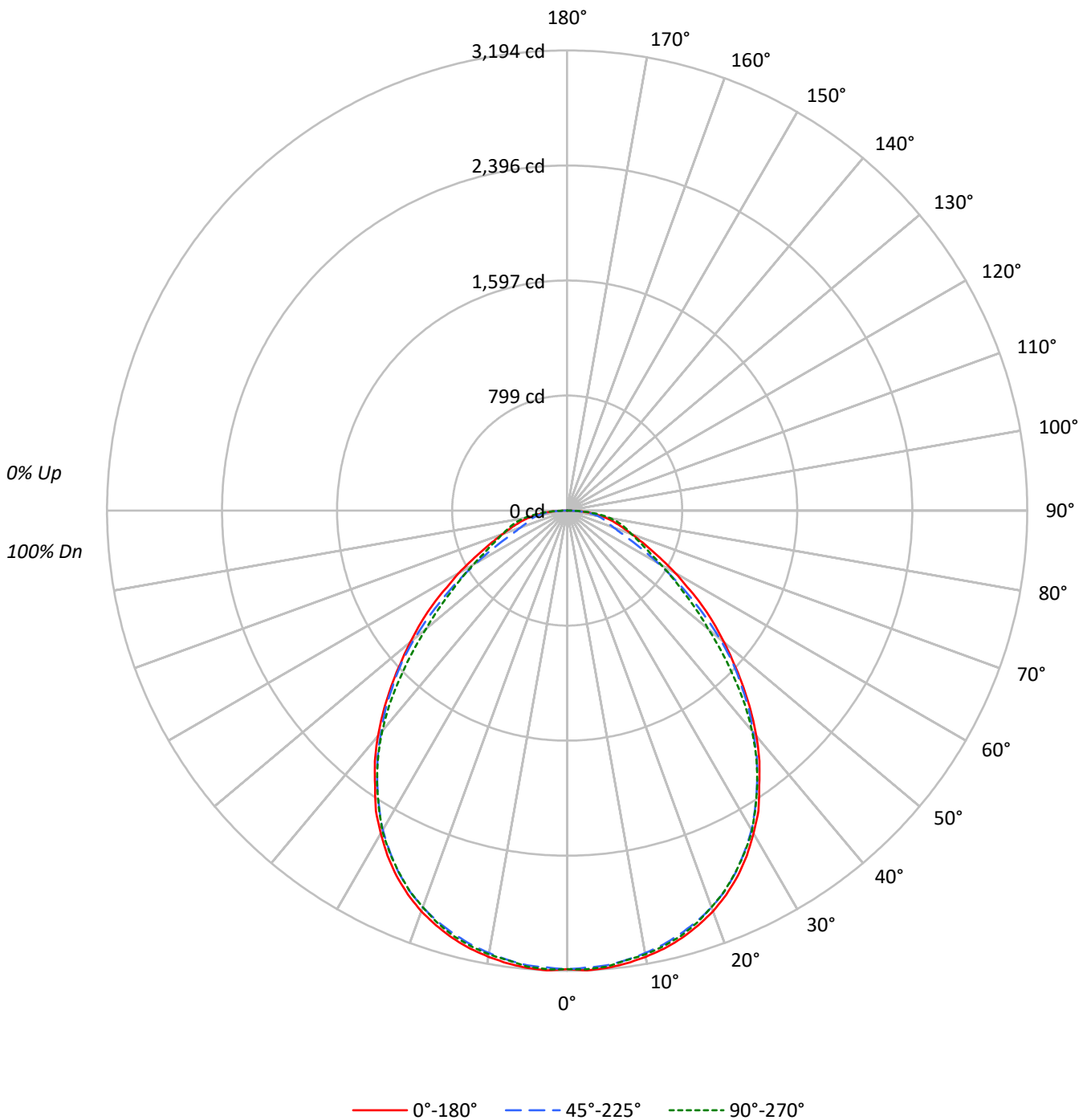
Input Watts (W): 62.589
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4283	4283	4283
5°	4304	4280	4291
10°	4296	4262	4274
15°	4280	4237	4255
20°	4239	4196	4195
25°	4157	4112	4109
30°	4019	3978	3987
35°	3818	3774	3780
40°	3590	3528	3506
45°	3290	3246	3117
50°	2974	2893	2675
55°	2670	2431	2306
60°	2338	1957	2028
65°	2040	1539	1867
70°	1866	1343	1866
75°	1867	1429	2057
80°	2027	1684	2345
85°	2225	1899	2515



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.5	4.2
10°-20°	860.3	12.0
20°-30°	1275.7	17.8
30°-40°	1439.1	20.1
40°-50°	1303.4	18.2
50°-60°	940.3	13.1
60°-70°	561.5	7.8
70°-80°	347.0	4.8
80°-90°	146.2	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°	2437.5	34.0
0°-40°	3876.6	54.0
0°-60°	6120.3	85.3
0°-90°	7175.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7175.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3184	3184	3184	3184	3184	
5°	3187	3182	3169	3166	3177	303
15°	3073	3054	3042	3043	3055	866
25°	2800	2784	2770	2760	2768	1286
35°	2324	2321	2298	2299	2301	1454
45°	1729	1718	1706	1664	1638	1333
55°	1138	1103	1036	985	983	1016
65°	641	564	483	549	586	644
75°	359	312	275	342	396	384
85°	144	126	123	161	163	151
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3183.5	3183.5	3183.5	3183.5	3183.5
2.5°	3194.5	3185.7	3174.6	3181.2	3186.8
5°	3186.8	3182.4	3169.1	3165.7	3176.8
7.5°	3170.2	3159.1	3146.9	3152.4	3148.0
10°	3144.7	3134.7	3119.2	3120.3	3128.0
12.5°	3113.6	3101.4	3084.8	3089.2	3095.9
15°	3072.6	3053.8	3041.6	3042.7	3054.9
17.5°	3020.5	3006.1	2990.6	2993.9	2999.5
20°	2960.7	2952.9	2930.7	2924.1	2929.6
22.5°	2885.3	2870.9	2858.7	2855.4	2856.5
25°	2799.9	2784.4	2770.0	2760.0	2767.8
27.5°	2700.2	2686.9	2668.0	2664.7	2671.4
30°	2587.1	2577.1	2560.5	2556.1	2566.1
32.5°	2471.8	2455.2	2431.9	2431.9	2434.2
35°	2324.4	2321.1	2297.8	2298.9	2301.1
37.5°	2191.4	2175.9	2162.6	2149.3	2155.9
40°	2044.0	2026.2	2008.5	1999.6	1996.3
42.5°	1885.5	1872.2	1864.4	1832.3	1824.5
45°	1729.2	1718.1	1705.9	1663.8	1638.3
47.5°	1569.6	1567.3	1557.4	1483.1	1457.6
50°	1421.0	1417.7	1382.2	1303.5	1278.0
52.5°	1280.3	1258.1	1211.5	1133.9	1129.5
55°	1138.4	1102.9	1036.4	985.4	983.2
57.5°	988.7	946.6	879.0	851.3	865.7
60°	869.0	804.7	727.1	730.5	753.7
62.5°	744.9	672.8	596.3	629.6	657.3
65°	640.7	564.2	483.3	548.7	586.4
67.5°	549.8	478.8	401.3	488.8	525.4
70°	474.4	416.8	341.4	433.4	474.4
72.5°	414.6	361.4	302.6	389.1	436.7
75°	359.1	311.5	274.9	342.5	395.7
77.5°	311.5	264.9	248.3	302.6	354.7
80°	261.6	219.5	217.3	263.8	302.6
82.5°	204.0	175.1	175.1	220.6	243.9
85°	144.1	126.4	123.0	160.7	162.9
87.5°	74.3	70.9	64.3	84.2	84.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)