

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: P294159

Luminaire Tested: **24GR-LD5-72-A19/156-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33308)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-72-A19/156-UNV-L92765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6678.0 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

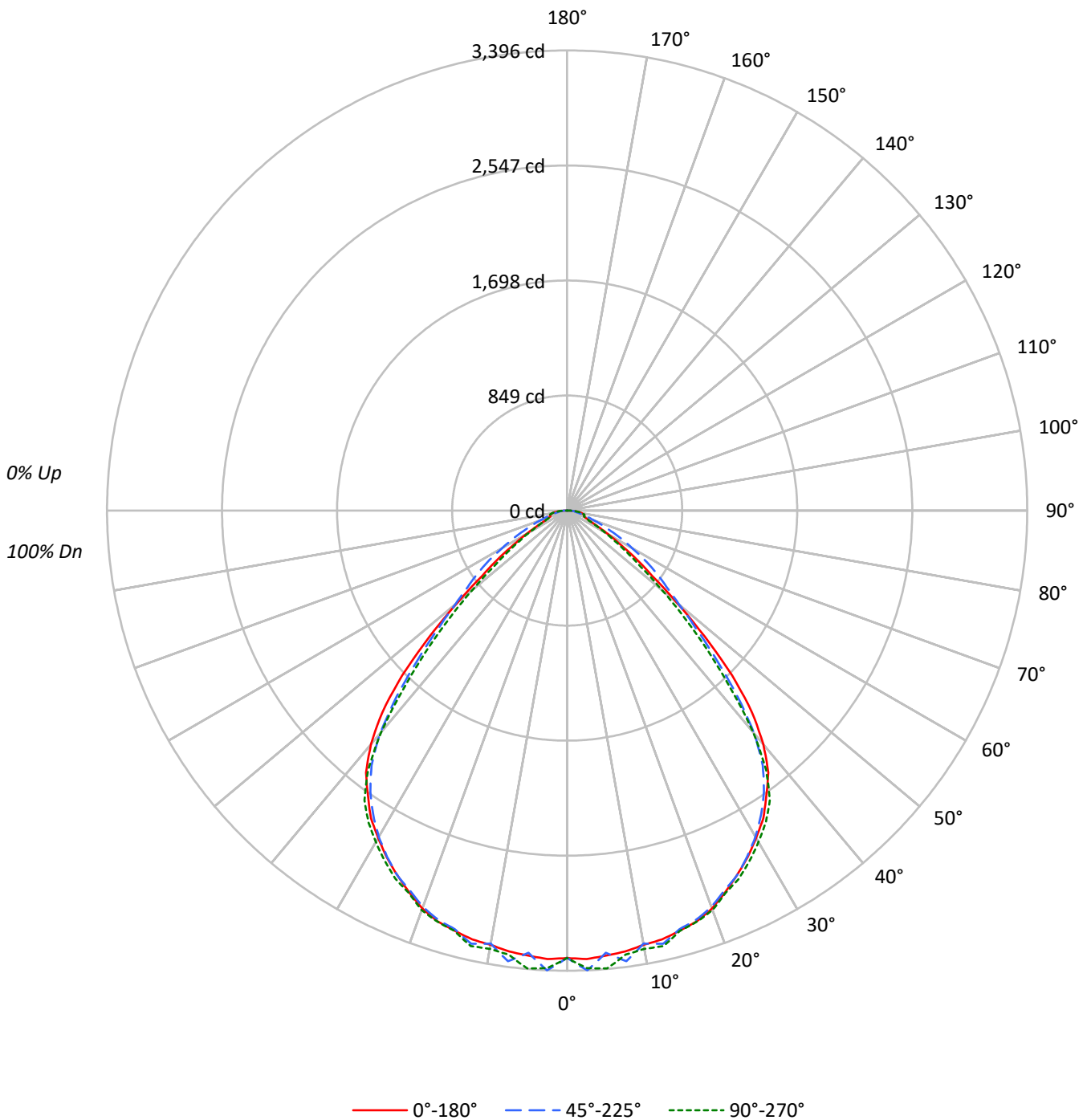
Input Watts (W): 54.963
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P294159

CATALOG NUMBER: 24GR-LD5-72-A19/156-UNV-L92765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P294159

CATALOG NUMBER: 24GR-LD5-72-A19/156-UNV-L92765-W2A1-U-6500K

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	111	107	103	100	108	105	102	99	101	98	96		97	95	93		93	92	90	88
2	103	96	90	86	100	94	89	85	91	86	83		88	84	81		85	82	79	77
3	95	86	79	74	93	85	78	73	82	77	72		79	75	71		77	73	70	68
4	88	78	71	65	86	77	70	64	74	68	64		72	67	63		70	66	62	60
5	82	71	63	57	80	70	62	57	68	61	56		66	60	56		64	59	55	53
6	76	65	57	51	75	64	56	51	62	55	50		60	55	50		59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45		56	50	45		54	49	45	43
8	67	55	47	42	65	54	47	41	53	46	41		51	45	41		50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38		48	42	37		47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34		44	38	34		44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4443	4443	4443
5°	4453	4424	4580
10°	4445	4432	4486
15°	4471	4456	4474
20°	4475	4456	4493
25°	4406	4409	4452
30°	4332	4319	4389
35°	4210	4159	4284
40°	3954	3777	3756
45°	3277	2965	2812
50°	2204	2249	1922
55°	1454	1887	1260
60°	932	1489	863
65°	601	1137	584
70°	531	814	531
75°	686	647	691
80°	839	557	881
85°	977	827	1027



TEST NUMBER: P294159

CATALOG NUMBER: 24GR-LD5-72-A19/156-UNV-L92765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.2	4.7
10°-20°	907.8	13.6
20°-30°	1366.7	20.5
30°-40°	1584.1	23.7
40°-50°	1237.4	18.5
50°-60°	660.8	9.9
60°-70°	339.8	5.1
70°-80°	192.2	2.9
80°-90°	73.0	1.1
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°	2590.7	38.8
0°-40°	4174.8	62.5
0°-60°	6073.0	90.9
0°-90°	6678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6678.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3302	3302	3302	3302	3302	
5°	3297	3389	3275	3365	3391	313
15°	3210	3230	3199	3220	3212	907
25°	2968	2958	2970	2965	2999	1367
35°	2563	2551	2532	2582	2608	1598
45°	1722	1723	1558	1544	1478	1298
55°	620	784	804	725	537	572
65°	189	394	357	392	183	207
75°	132	248	124	232	133	134
85°	63	83	54	83	66	65
90°	0	0	0	0	0	



TEST NUMBER: P294159

CATALOG NUMBER: 24GR-LD5-72-A19/156-UNV-L92765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3302.1	3302.1	3302.1	3302.1	3302.1
2.5°	3312.8	3372.9	3396.5	3367.5	3380.4
5°	3296.7	3388.9	3275.3	3365.4	3391.1
7.5°	3281.7	3272.1	3354.6	3268.8	3305.3
10°	3253.8	3260.3	3244.2	3305.3	3283.8
12.5°	3240.9	3278.5	3275.3	3244.2	3291.4
15°	3209.8	3230.2	3199.1	3219.5	3212.0
17.5°	3178.7	3169.1	3165.9	3174.5	3182.0
20°	3125.1	3093.0	3112.3	3114.4	3138.0
22.5°	3047.9	3028.6	3032.9	3052.2	3054.3
25°	2967.5	2957.8	2969.6	2965.3	2998.6
27.5°	2883.8	2871.0	2878.5	2894.5	2914.9
30°	2788.4	2785.2	2779.8	2793.7	2824.8
32.5°	2694.0	2668.3	2664.0	2692.9	2728.3
35°	2563.2	2551.4	2532.1	2582.5	2608.2
37.5°	2438.8	2402.3	2371.2	2401.2	2411.9
40°	2251.1	2223.2	2150.3	2153.5	2138.5
42.5°	2020.5	2000.1	1860.7	1836.0	1794.2
45°	1722.4	1723.4	1558.3	1544.3	1477.8
47.5°	1376.0	1437.1	1293.4	1277.3	1178.6
50°	1053.1	1163.6	1074.6	1048.9	918.0
52.5°	790.4	952.3	924.5	868.7	688.5
55°	619.9	784.0	804.3	725.0	537.3
57.5°	466.5	645.6	678.9	613.4	415.0
60°	346.4	543.7	553.4	527.6	320.7
62.5°	257.4	462.2	449.4	452.6	238.1
65°	188.8	393.6	357.1	392.5	183.4
67.5°	154.4	341.0	277.8	340.0	149.1
70°	135.1	302.4	207.0	299.2	135.1
72.5°	130.8	277.8	164.1	266.0	131.9
75°	131.9	247.7	124.4	231.6	133.0
77.5°	121.2	203.8	94.4	197.3	126.5
80°	108.3	154.4	71.9	156.6	113.7
82.5°	92.2	112.6	57.9	115.8	95.4
85°	63.3	82.6	53.6	82.6	66.5
87.5°	30.0	49.3	33.2	47.2	34.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)