

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: P294026

Luminaire Tested: **24GR-LD5-72-A19/156-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294026
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-L82765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6643.0 lumens
Efficiency: N/A
Efficacy: 127.3 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

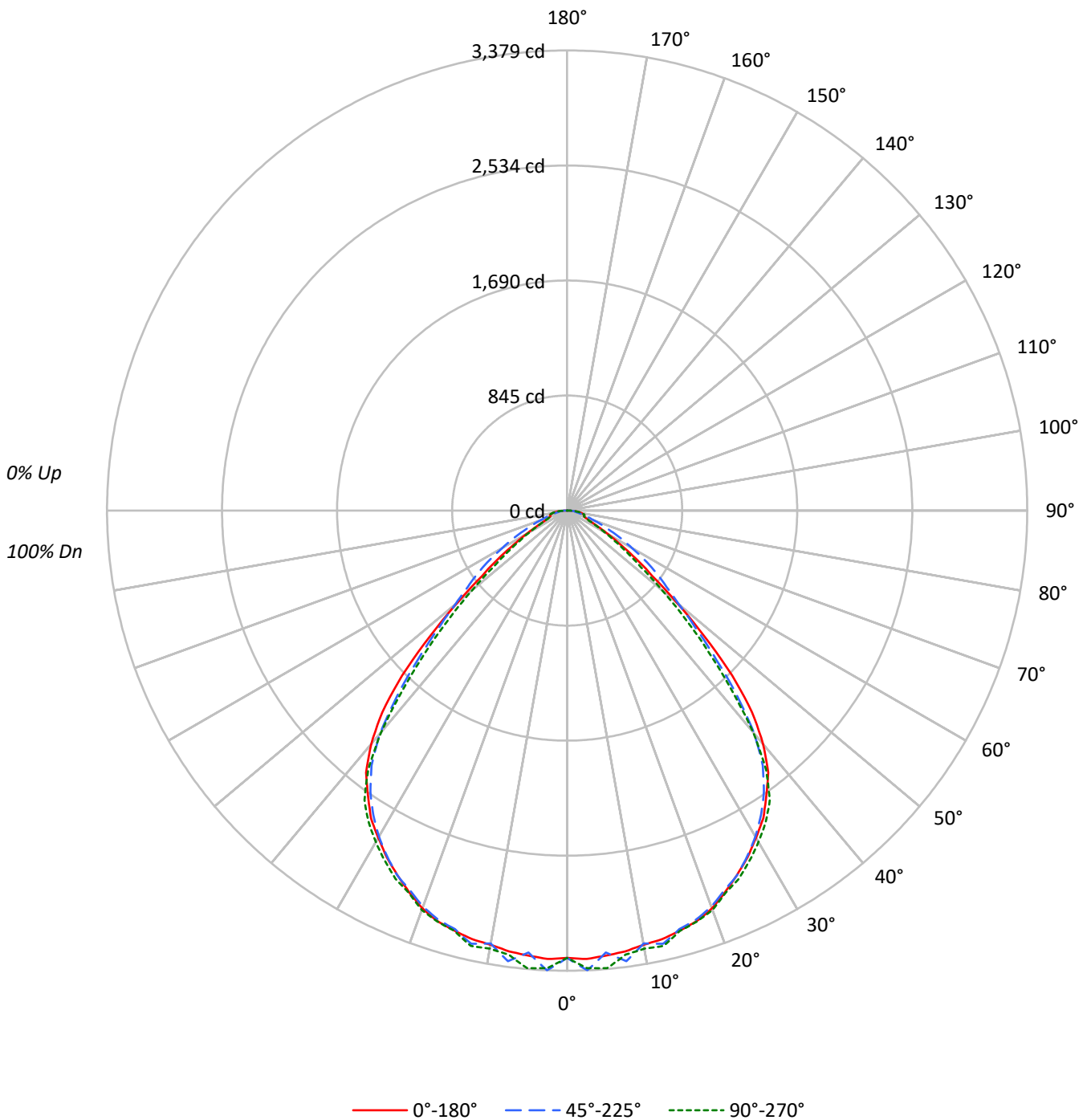
Input Watts (W): 52.173
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P294026

CATALOG NUMBER: 24GR-LD5-72-A19/156-UNV-L82765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P294026

CATALOG NUMBER: 24GR-LD5-72-A19/156-UNV-L82765-W2A1-U-3000K

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°	4420	4420	4420
5°	4429	4400	4556
10°	4422	4409	4463
15°	4448	4433	4451
20°	4451	4433	4469
25°	4382	4386	4428
30°	4309	4296	4366
35°	4188	4137	4262
40°	3933	3757	3736
45°	3260	2950	2797
50°	2193	2238	1912
55°	1446	1877	1254
60°	927	1481	858
65°	598	1131	581
70°	529	810	529
75°	682	644	688
80°	834	554	876
85°	971	823	1020



TEST NUMBER: P294026

CATALOG NUMBER: 24GR-LD5-72-A19/156-UNV-L82765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.5	4.7
10°-20°	903.1	13.6
20°-30°	1359.6	20.5
30°-40°	1575.8	23.7
40°-50°	1231.0	18.5
50°-60°	657.3	9.9
60°-70°	338.0	5.1
70°-80°	191.2	2.9
80°-90°	72.6	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°	2577.1	38.8
0°-40°	4152.9	62.5
0°-60°	6041.2	90.9
0°-90°	6643.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6643.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3285	3285	3285	3285	3285	
5°	3279	3371	3258	3348	3373	312
15°	3193	3213	3182	3203	3195	902
25°	2952	2942	2954	2950	2983	1360
35°	2550	2538	2519	2569	2594	1590
45°	1713	1714	1550	1536	1470	1291
55°	617	780	800	721	534	569
65°	188	392	355	390	182	206
75°	131	246	124	230	132	133
85°	63	82	53	82	66	65
90°	0	0	0	0	0	



TEST NUMBER: P294026

CATALOG NUMBER: 24GR-LD5-72-A19/156-UNV-L82765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3284.8	3284.8	3284.8	3284.8	3284.8
2.5°	3295.4	3355.2	3378.7	3349.8	3362.7
5°	3279.4	3371.2	3258.1	3347.7	3373.3
7.5°	3264.5	3254.9	3337.0	3251.7	3288.0
10°	3236.8	3243.2	3227.2	3288.0	3266.6
12.5°	3224.0	3261.3	3258.1	3227.2	3274.1
15°	3193.0	3213.3	3182.4	3202.6	3195.2
17.5°	3162.1	3152.5	3149.3	3157.8	3165.3
20°	3108.7	3076.7	3095.9	3098.1	3121.5
22.5°	3031.9	3012.7	3017.0	3036.2	3038.3
25°	2951.9	2942.3	2954.1	2949.8	2982.9
27.5°	2868.7	2855.9	2863.4	2879.4	2899.6
30°	2773.8	2770.6	2765.2	2779.1	2810.0
32.5°	2679.9	2654.3	2650.0	2678.8	2714.0
35°	2549.7	2538.0	2518.8	2568.9	2594.5
37.5°	2426.0	2389.7	2358.8	2388.6	2399.3
40°	2239.3	2211.5	2139.0	2142.2	2127.3
42.5°	2009.9	1989.6	1851.0	1826.4	1784.8
45°	1713.3	1714.4	1550.1	1536.2	1470.1
47.5°	1368.7	1429.6	1286.6	1270.6	1172.4
50°	1047.6	1157.5	1069.0	1043.4	913.2
52.5°	786.3	947.3	919.6	864.1	684.9
55°	616.6	779.9	800.1	721.2	534.5
57.5°	464.1	642.2	675.3	610.2	412.9
60°	344.6	540.9	550.5	524.9	319.0
62.5°	256.0	459.8	447.0	450.2	236.8
65°	187.8	391.5	355.3	390.5	182.4
67.5°	153.6	339.3	276.3	338.2	148.3
70°	134.4	300.8	205.9	297.6	134.4
72.5°	130.2	276.3	163.2	264.6	131.2
75°	131.2	246.4	123.8	230.4	132.3
77.5°	120.6	202.7	93.9	196.3	125.9
80°	107.7	153.6	71.5	155.8	113.1
82.5°	91.7	112.0	57.6	115.2	94.9
85°	62.9	82.1	53.3	82.1	66.1
87.5°	29.9	49.1	33.1	46.9	34.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)