

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: P294042

Luminaire Tested: **24GR-LD5-85-A19/156-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294042
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-LD5-85-A19/156-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8433.0 lumens
Efficiency: N/A
Efficacy: 129.4 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

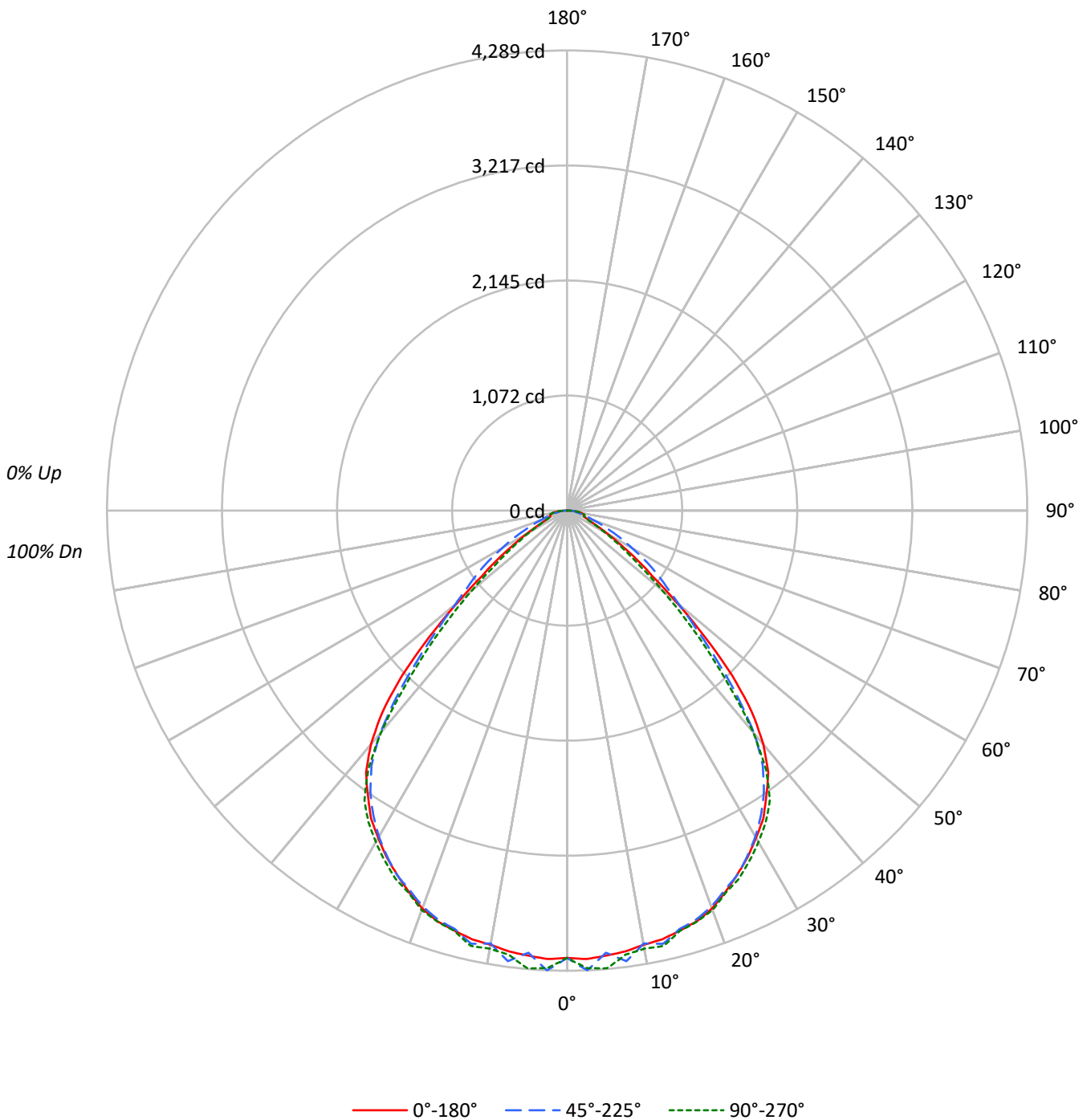
Input Watts (W): 65.193
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P294042

CATALOG NUMBER: 24GR-LD5-85-A19/156-UNV-L82765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P294042

CATALOG NUMBER: 24GR-LD5-85-A19/156-UNV-L82765-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°	5611	5611	5611
5°	5623	5586	5784
10°	5614	5597	5666
15°	5646	5627	5650
20°	5651	5627	5674
25°	5563	5567	5622
30°	5471	5454	5542
35°	5317	5252	5410
40°	4993	4769	4743
45°	4139	3744	3551
50°	2784	2840	2427
55°	1836	2383	1592
60°	1177	1880	1090
65°	759	1436	737
70°	671	1028	671
75°	866	817	873
80°	1060	703	1113
85°	1233	1045	1297



TEST NUMBER: P294042

CATALOG NUMBER: 24GR-LD5-85-A19/156-UNV-L82765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.2	4.7
10°-20°	1146.4	13.6
20°-30°	1725.9	20.5
30°-40°	2000.4	23.7
40°-50°	1562.7	18.5
50°-60°	834.4	9.9
60°-70°	429.1	5.1
70°-80°	242.7	2.9
80°-90°	92.2	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°	3271.5	38.8
0°-40°	5271.9	62.5
0°-60°	7669.0	90.9
0°-90°	8433.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8433.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4170	4170	4170	4170	4170	
5°	4163	4280	4136	4250	4282	396
15°	4053	4079	4040	4066	4056	1145
25°	3747	3735	3750	3745	3787	1727
35°	3237	3222	3198	3261	3294	2018
45°	2175	2176	1968	1950	1866	1639
55°	783	990	1016	916	678	722
65°	238	497	451	496	232	262
75°	167	313	157	292	168	169
85°	80	104	68	104	84	82
90°	0	0	0	0	0	



TEST NUMBER: P294042

CATALOG NUMBER: 24GR-LD5-85-A19/156-UNV-L82765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4169.9	4169.9	4169.9	4169.9	4169.9
2.5°	4183.4	4259.3	4289.1	4252.5	4268.7
5°	4163.1	4279.6	4136.0	4249.8	4282.3
7.5°	4144.1	4132.0	4236.2	4127.9	4173.9
10°	4108.9	4117.1	4096.7	4173.9	4146.9
12.5°	4092.7	4140.1	4136.0	4096.7	4156.3
15°	4053.4	4079.1	4039.9	4065.6	4056.1
17.5°	4014.1	4001.9	3997.9	4008.7	4018.2
20°	3946.4	3905.8	3930.2	3932.9	3962.7
22.5°	3848.9	3824.5	3829.9	3854.3	3857.0
25°	3747.3	3735.1	3750.0	3744.6	3786.6
27.5°	3641.7	3625.4	3634.9	3655.2	3681.0
30°	3521.2	3517.1	3510.3	3527.9	3567.2
32.5°	3402.0	3369.5	3364.1	3400.6	3445.3
35°	3236.8	3221.9	3197.5	3261.1	3293.6
37.5°	3079.7	3033.6	2994.3	3032.3	3045.8
40°	2842.7	2807.5	2715.4	2719.4	2700.5
42.5°	2551.5	2525.8	2349.7	2318.6	2265.7
45°	2175.0	2176.4	1967.8	1950.2	1866.2
47.5°	1737.6	1814.8	1633.3	1613.0	1488.4
50°	1329.9	1469.4	1357.0	1324.5	1159.3
52.5°	998.1	1202.6	1167.4	1097.0	869.5
55°	782.8	990.0	1015.7	915.5	678.5
57.5°	589.1	815.3	857.3	774.7	524.1
60°	437.4	686.6	698.8	666.3	404.9
62.5°	325.0	583.7	567.4	571.5	300.7
65°	238.4	497.0	451.0	495.7	231.6
67.5°	195.0	430.7	350.8	429.3	188.2
70°	170.6	381.9	261.4	377.8	170.6
72.5°	165.2	350.8	207.2	335.9	166.6
75°	166.6	312.8	157.1	292.5	167.9
77.5°	153.0	257.3	119.2	249.2	159.8
80°	136.8	195.0	90.7	197.7	143.6
82.5°	116.5	142.2	73.1	146.3	120.5
85°	79.9	104.3	67.7	104.3	84.0
87.5°	37.9	62.3	42.0	59.6	43.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)