

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: P294031

Luminaire Tested: **24GR-LD5-72-A19/156-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294031
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-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7317.0 lumens
Efficiency: N/A
Efficacy: 135.4 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

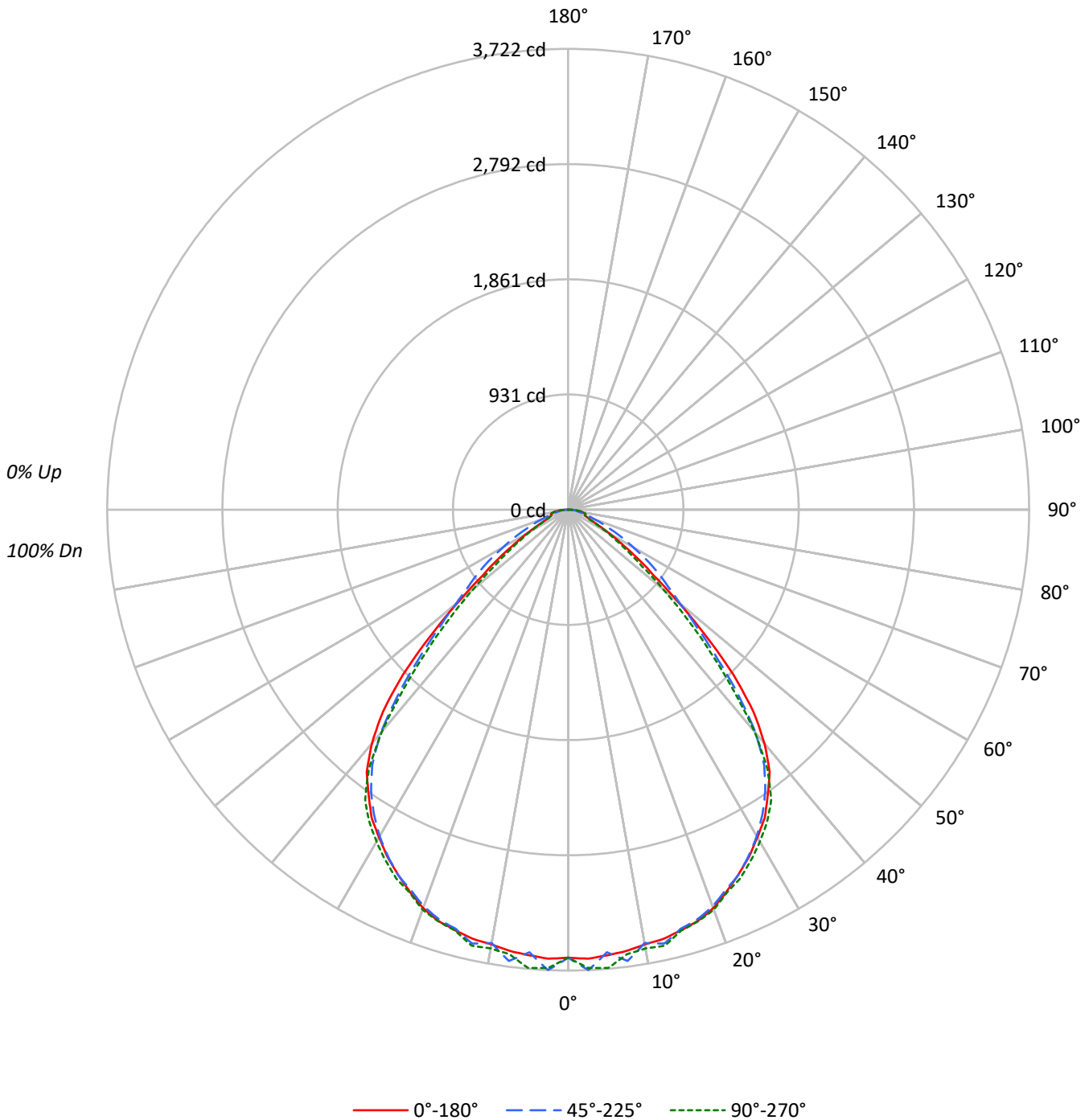
Input Watts (W): 54.033
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77				77
3	95	86	79	74	93	85	78	73	82	77	72	79	75	71	77	73	70	68				68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60				60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53				53
6	76	65	57	51	75	64	56	51	62	55	50	60	55	50	59	54	50	48				48
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43				43
8	67	55	47	42	65	54	47	41	53	46	41	51	45	41	50	45	41	39				39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36				36
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4868	4868	4868
5°	4879	4847	5018
10°	4871	4856	4916
15°	4899	4883	4902
20°	4903	4883	4923
25°	4827	4831	4878
30°	4747	4732	4809
35°	4613	4557	4694
40°	4332	4138	4115
45°	3591	3249	3081
50°	2415	2465	2106
55°	1593	2067	1381
60°	1021	1632	945
65°	658	1246	640
70°	583	892	583
75°	751	709	757
80°	920	610	965
85°	1070	908	1125



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.4	4.7
10°-20°	994.7	13.6
20°-30°	1497.5	20.5
30°-40°	1735.7	23.7
40°-50°	1355.8	18.5
50°-60°	724.0	9.9
60°-70°	372.3	5.1
70°-80°	210.6	2.9
80°-90°	80.0	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°	2838.6	38.8
0°-40°	4574.3	62.5
0°-60°	6654.1	90.9
0°-90°	7317.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7317.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3618	3618	3618	3618	3618	
5°	3612	3713	3589	3687	3716	343
15°	3517	3539	3505	3528	3519	993
25°	3251	3241	3254	3249	3286	1498
35°	2808	2796	2774	2830	2858	1751
45°	1887	1888	1707	1692	1619	1422
55°	679	859	881	794	589	627
65°	207	431	391	430	201	227
75°	144	271	136	254	146	146
85°	69	90	59	90	73	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3618.0	3618.0	3618.0	3618.0	3618.0
2.5°	3629.8	3695.6	3721.5	3689.7	3703.8
5°	3612.2	3713.2	3588.7	3687.4	3715.6
7.5°	3595.7	3585.1	3675.6	3581.6	3621.6
10°	3565.2	3572.2	3554.6	3621.6	3598.1
12.5°	3551.1	3592.2	3588.7	3554.6	3606.3
15°	3517.0	3539.3	3505.2	3527.6	3519.3
17.5°	3482.9	3472.3	3468.8	3478.2	3486.4
20°	3424.2	3388.9	3410.1	3412.4	3438.3
22.5°	3339.6	3318.4	3323.1	3344.3	3346.6
25°	3251.4	3240.8	3253.8	3249.1	3285.5
27.5°	3159.8	3145.7	3153.9	3171.5	3193.8
30°	3055.2	3051.7	3045.8	3061.1	3095.1
32.5°	2951.8	2923.6	2918.9	2950.6	2989.4
35°	2808.4	2795.5	2774.3	2829.6	2857.8
37.5°	2672.1	2632.2	2598.1	2631.0	2642.7
40°	2466.5	2435.9	2356.0	2359.5	2343.1
42.5°	2213.8	2191.5	2038.7	2011.7	1965.9
45°	1887.2	1888.3	1707.4	1692.1	1619.2
47.5°	1507.6	1574.6	1417.1	1399.5	1291.4
50°	1153.9	1275.0	1177.4	1149.2	1005.9
52.5°	866.0	1043.5	1012.9	951.8	754.4
55°	679.2	859.0	881.3	794.3	588.7
57.5°	511.2	707.4	743.8	672.1	454.8
60°	379.5	595.8	606.3	578.1	351.3
62.5°	282.0	506.5	492.4	495.9	260.9
65°	206.8	431.3	391.3	430.1	200.9
67.5°	169.2	373.7	304.3	372.5	163.3
70°	148.1	331.4	226.8	327.8	148.1
72.5°	143.4	304.3	179.8	291.4	144.5
75°	144.5	271.4	136.3	253.8	145.7
77.5°	132.8	223.3	103.4	216.2	138.7
80°	118.7	169.2	78.7	171.6	124.6
82.5°	101.1	123.4	63.5	126.9	104.6
85°	69.3	90.5	58.8	90.5	72.9
87.5°	32.9	54.1	36.4	51.7	37.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)