

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: P294032

Luminaire Tested: **24GR-LD5-72-A19/156-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294032
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-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7336.0 lumens
Efficiency: N/A
Efficacy: 135.8 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

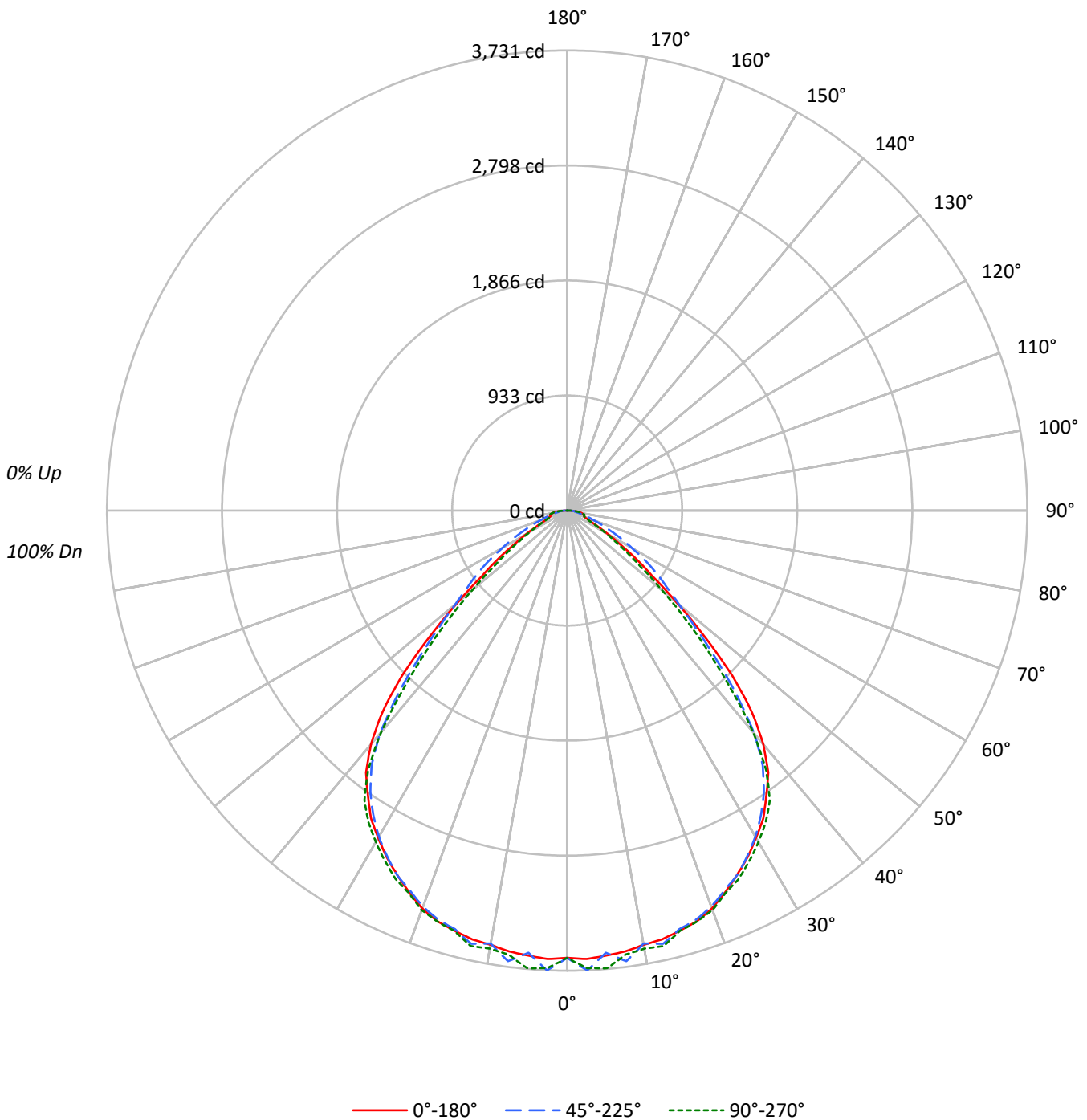
Input Watts (W): 54.033
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4881	4881	4881
5°	4891	4860	5031
10°	4884	4869	4929
15°	4912	4895	4915
20°	4916	4895	4936
25°	4840	4843	4890
30°	4759	4744	4821
35°	4625	4569	4706
40°	4343	4149	4126
45°	3600	3257	3089
50°	2422	2471	2111
55°	1597	2073	1384
60°	1024	1636	948
65°	660	1249	642
70°	584	895	584
75°	753	711	760
80°	922	611	968
85°	1073	909	1127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.3	4.7
10°-20°	997.3	13.6
20°-30°	1501.4	20.5
30°-40°	1740.2	23.7
40°-50°	1359.4	18.5
50°-60°	725.9	9.9
60°-70°	373.3	5.1
70°-80°	211.2	2.9
80°-90°	80.2	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°	2846.0	38.8
0°-40°	4586.2	62.5
0°-60°	6671.4	90.9
0°-90°	7336.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7336.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3627	3627	3627	3627	3627	
5°	3622	3723	3598	3697	3725	344
15°	3526	3548	3514	3537	3528	996
25°	3260	3249	3262	3258	3294	1502
35°	2816	2803	2782	2837	2865	1755
45°	1892	1893	1712	1696	1624	1426
55°	681	861	884	796	590	628
65°	207	432	392	431	202	228
75°	145	272	137	254	146	147
85°	70	91	59	91	73	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3627.4	3627.4	3627.4	3627.4	3627.4
2.5°	3639.2	3705.2	3731.1	3699.3	3713.4
5°	3621.6	3722.9	3598.0	3697.0	3725.2
7.5°	3605.1	3594.5	3685.2	3590.9	3631.0
10°	3574.4	3581.5	3563.8	3631.0	3607.4
12.5°	3560.3	3601.5	3598.0	3563.8	3615.7
15°	3526.1	3548.5	3514.3	3536.7	3528.5
17.5°	3492.0	3481.4	3477.8	3487.2	3495.5
20°	3433.1	3397.7	3418.9	3421.3	3447.2
22.5°	3348.2	3327.0	3331.7	3352.9	3355.3
25°	3259.9	3249.3	3262.2	3257.5	3294.0
27.5°	3168.0	3153.8	3162.1	3179.8	3202.1
30°	3063.1	3059.6	3053.7	3069.0	3103.2
32.5°	2959.4	2931.2	2926.5	2958.3	2997.1
35°	2815.7	2802.8	2781.5	2836.9	2865.2
37.5°	2679.1	2639.0	2604.8	2637.8	2649.6
40°	2472.9	2442.2	2362.1	2365.7	2349.2
42.5°	2219.6	2197.2	2044.0	2016.9	1971.0
45°	1892.1	1893.2	1711.8	1696.5	1623.5
47.5°	1511.5	1578.7	1420.8	1403.1	1294.8
50°	1156.9	1278.3	1180.5	1152.2	1008.5
52.5°	868.3	1046.2	1015.5	954.3	756.4
55°	681.0	861.2	883.6	796.4	590.2
57.5°	512.5	709.2	745.8	673.9	455.9
60°	380.5	597.3	607.9	579.6	352.3
62.5°	282.7	507.8	493.6	497.2	261.5
65°	207.3	432.4	392.3	431.2	201.5
67.5°	169.6	374.6	305.1	373.5	163.8
70°	148.4	332.2	227.4	328.7	148.4
72.5°	143.7	305.1	180.3	292.2	144.9
75°	144.9	272.1	136.7	254.5	146.1
77.5°	133.1	223.8	103.7	216.8	139.0
80°	119.0	169.6	78.9	172.0	124.9
82.5°	101.3	123.7	63.6	127.2	104.9
85°	69.5	90.7	58.9	90.7	73.0
87.5°	33.0	54.2	36.5	51.8	37.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)