

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: P294030

Luminaire Tested: **24GR-LD5-72-A19/156-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294030
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-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7245.0 lumens
Efficiency: N/A
Efficacy: 134.8 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

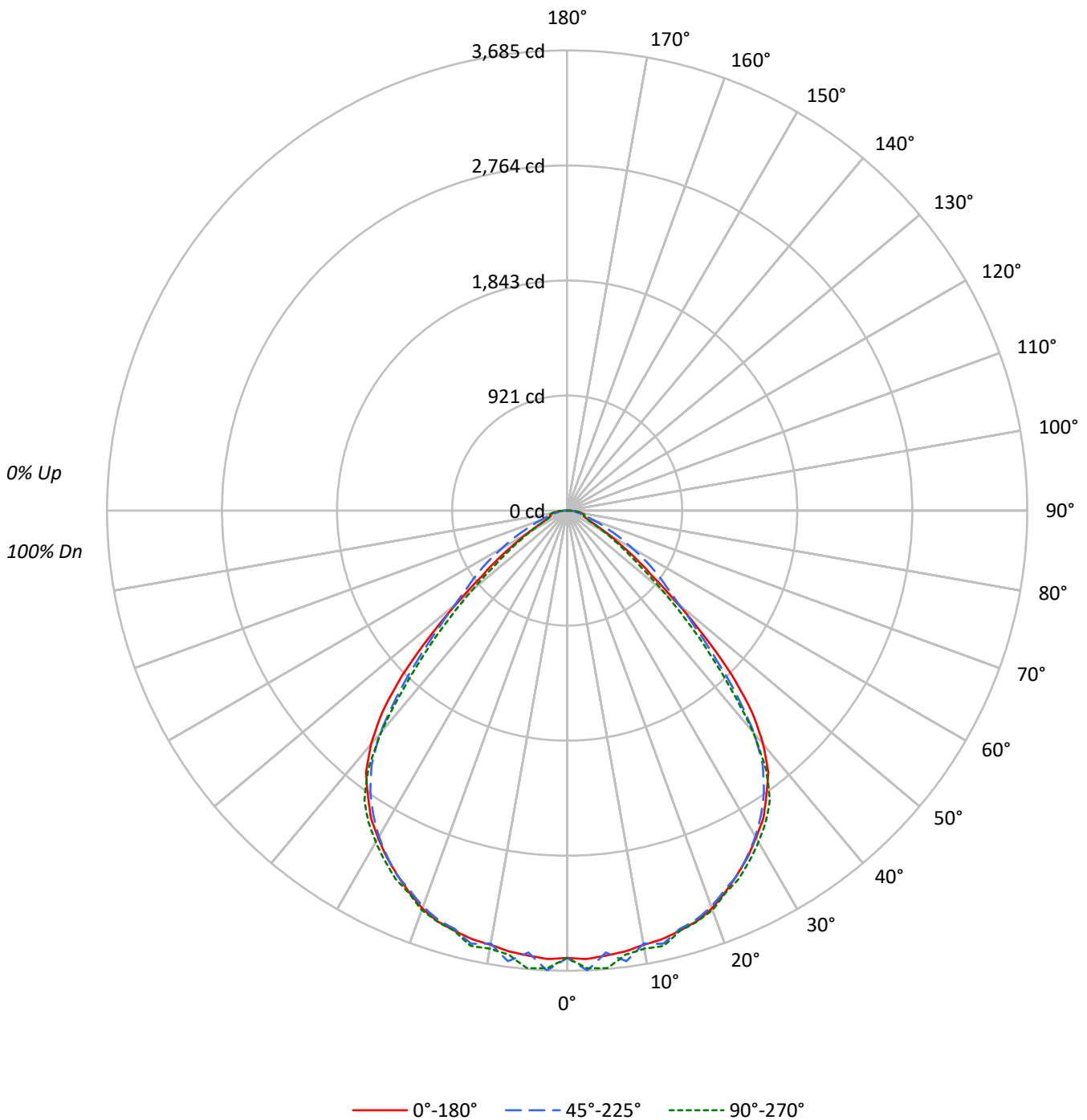
Input Watts (W): 53.754
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4820	4820	4820
5°	4831	4799	4969
10°	4823	4809	4868
15°	4851	4835	4854
20°	4855	4835	4875
25°	4779	4783	4830
30°	4700	4685	4761
35°	4568	4512	4648
40°	4290	4097	4075
45°	3556	3217	3051
50°	2392	2440	2085
55°	1578	2047	1367
60°	1011	1616	936
65°	652	1233	634
70°	577	884	577
75°	744	702	750
80°	910	604	955
85°	1059	898	1113



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.0	4.7
10°-20°	984.9	13.6
20°-30°	1482.8	20.5
30°-40°	1718.6	23.7
40°-50°	1342.5	18.5
50°-60°	716.8	9.9
60°-70°	368.6	5.1
70°-80°	208.5	2.9
80°-90°	79.2	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°	2810.7	38.8
0°-40°	4529.3	62.5
0°-60°	6588.6	90.9
0°-90°	7245.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7245.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3582	3582	3582	3582	3582	
5°	3577	3677	3553	3651	3679	340
15°	3482	3504	3471	3493	3485	984
25°	3219	3209	3222	3217	3253	1484
35°	2781	2768	2747	2802	2830	1734
45°	1869	1870	1691	1676	1603	1408
55°	672	850	873	786	583	621
65°	205	427	387	426	199	225
75°	143	269	135	251	144	145
85°	69	90	58	90	72	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3582.4	3582.4	3582.4	3582.4	3582.4
2.5°	3594.1	3659.2	3684.8	3653.4	3667.4
5°	3576.6	3676.7	3553.4	3651.1	3679.0
7.5°	3560.3	3549.9	3639.5	3546.4	3585.9
10°	3530.1	3537.1	3519.6	3585.9	3562.7
12.5°	3516.1	3556.8	3553.4	3519.6	3570.8
15°	3482.4	3504.5	3470.7	3492.9	3484.7
17.5°	3448.6	3438.2	3434.7	3444.0	3452.1
20°	3390.5	3355.6	3376.5	3378.8	3404.4
22.5°	3306.7	3285.7	3290.4	3311.3	3313.7
25°	3219.4	3209.0	3221.8	3217.1	3253.2
27.5°	3128.7	3114.7	3122.9	3140.3	3162.4
30°	3025.1	3021.6	3015.8	3030.9	3064.7
32.5°	2922.7	2894.8	2890.2	2921.6	2960.0
35°	2780.8	2768.0	2747.0	2801.7	2829.7
37.5°	2645.8	2606.3	2572.5	2605.1	2616.7
40°	2442.2	2412.0	2332.8	2336.3	2320.0
42.5°	2192.1	2169.9	2018.7	1991.9	1946.6
45°	1868.6	1869.8	1690.6	1675.5	1603.3
47.5°	1492.8	1559.1	1403.2	1385.7	1278.7
50°	1142.6	1262.4	1165.8	1137.9	996.0
52.5°	857.5	1033.2	1002.9	942.4	747.0
55°	672.5	850.5	872.6	786.5	582.9
57.5°	506.1	700.4	736.5	665.5	450.3
60°	375.8	589.9	600.4	572.4	347.9
62.5°	279.2	501.5	487.5	491.0	258.3
65°	204.8	427.0	387.4	425.8	199.0
67.5°	167.5	370.0	301.3	368.8	161.7
70°	146.6	328.1	224.6	324.6	146.6
72.5°	141.9	301.3	178.0	288.6	143.1
75°	143.1	268.8	135.0	251.3	144.3
77.5°	131.5	221.1	102.4	214.1	137.3
80°	117.5	167.5	78.0	169.9	123.3
82.5°	100.1	122.2	62.8	125.7	103.6
85°	68.6	89.6	58.2	89.6	72.1
87.5°	32.6	53.5	36.1	51.2	37.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)