

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: P294024

Luminaire Tested: **24GR-LD5-64-A19/156-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294024
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-LD5-64-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: 6510.0 lumens
Efficiency: N/A
Efficacy: 135.7 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

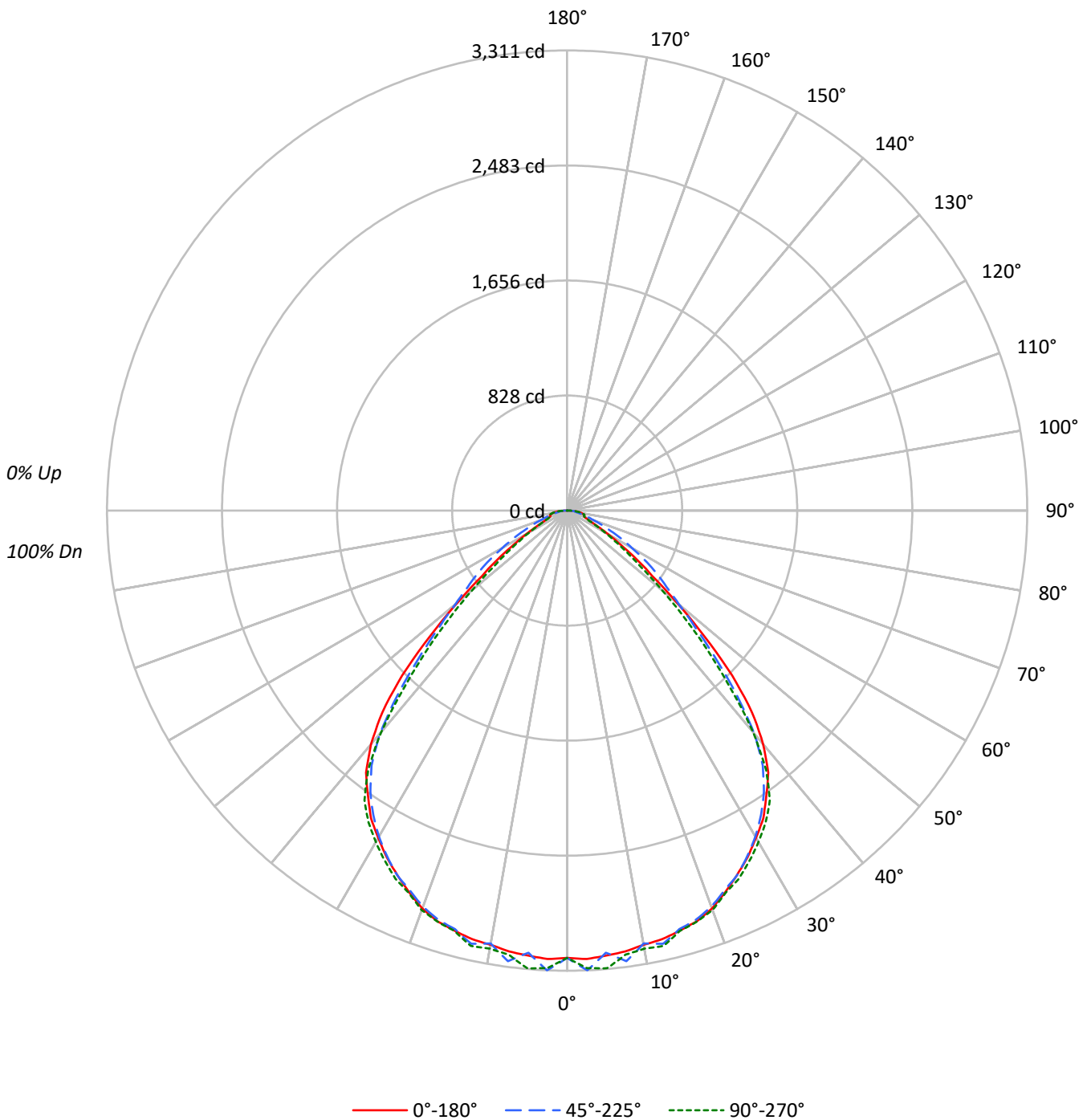
Input Watts (W): 47.988
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4331	4331	4331
5°	4341	4312	4465
10°	4334	4321	4374
15°	4359	4344	4362
20°	4362	4344	4380
25°	4295	4298	4340
30°	4223	4210	4278
35°	4104	4054	4176
40°	3854	3682	3662
45°	3195	2891	2741
50°	2149	2193	1873
55°	1418	1839	1229
60°	909	1452	841
65°	586	1108	569
70°	518	794	518
75°	669	631	674
80°	818	542	859
85°	953	807	1000



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.2	4.7
10°-20°	885.0	13.6
20°-30°	1332.3	20.5
30°-40°	1544.3	23.7
40°-50°	1206.3	18.5
50°-60°	644.1	9.9
60°-70°	331.2	5.1
70°-80°	187.4	2.9
80°-90°	71.2	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°	2525.5	38.8
0°-40°	4069.8	62.5
0°-60°	5920.2	90.9
0°-90°	6510.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6510.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3219	3219	3219	3219	3219	
5°	3214	3304	3193	3281	3306	306
15°	3129	3149	3119	3138	3131	884
25°	2893	2883	2895	2891	2923	1333
35°	2499	2487	2468	2518	2543	1558
45°	1679	1680	1519	1506	1441	1265
55°	604	764	784	707	524	558
65°	184	384	348	383	179	202
75°	129	242	121	226	130	130
85°	62	80	52	80	65	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3219.0	3219.0	3219.0	3219.0	3219.0
2.5°	3229.5	3288.0	3311.0	3282.8	3295.3
5°	3213.8	3303.7	3192.9	3280.7	3305.8
7.5°	3199.1	3189.7	3270.2	3186.6	3222.1
10°	3172.0	3178.2	3162.6	3222.1	3201.2
12.5°	3159.4	3196.0	3192.9	3162.6	3208.6
15°	3129.1	3149.0	3118.6	3138.5	3131.2
17.5°	3098.8	3089.4	3086.2	3094.6	3101.9
20°	3046.5	3015.1	3034.0	3036.1	3059.1
22.5°	2971.2	2952.4	2956.6	2975.4	2977.5
25°	2892.8	2883.4	2894.9	2890.7	2923.1
27.5°	2811.3	2798.7	2806.0	2821.7	2841.6
30°	2718.2	2715.1	2709.9	2723.5	2753.8
32.5°	2626.2	2601.1	2597.0	2625.2	2659.7
35°	2498.7	2487.2	2468.4	2517.5	2542.6
37.5°	2377.4	2341.9	2311.5	2340.8	2351.3
40°	2194.4	2167.3	2096.2	2099.3	2084.7
42.5°	1969.7	1949.8	1813.9	1789.8	1749.1
45°	1679.0	1680.1	1519.1	1505.5	1440.7
47.5°	1341.3	1400.9	1260.8	1245.2	1149.0
50°	1026.7	1134.3	1047.6	1022.5	894.9
52.5°	770.5	928.4	901.2	846.8	671.2
55°	604.3	764.2	784.1	706.7	523.8
57.5°	454.8	629.4	661.8	598.0	404.6
60°	337.7	530.1	539.5	514.4	312.6
62.5°	250.9	450.6	438.1	441.2	232.1
65°	184.0	383.7	348.1	382.6	178.8
67.5°	150.5	332.5	270.8	331.4	145.3
70°	131.7	294.8	201.8	291.7	131.7
72.5°	127.5	270.8	160.0	259.3	128.6
75°	128.6	241.5	121.3	225.8	129.6
77.5°	118.1	198.6	92.0	192.4	123.4
80°	105.6	150.5	70.0	152.6	110.8
82.5°	89.9	109.8	56.5	112.9	93.0
85°	61.7	80.5	52.3	80.5	64.8
87.5°	29.3	48.1	32.4	46.0	33.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)