

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: P294149

Luminaire Tested: **24GR-LD5-64-A19/156-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P294149  
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-L92765-W2A1-U-5700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A19/156 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5871.0 lumens  
Efficiency: N/A  
Efficacy: 124.0 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

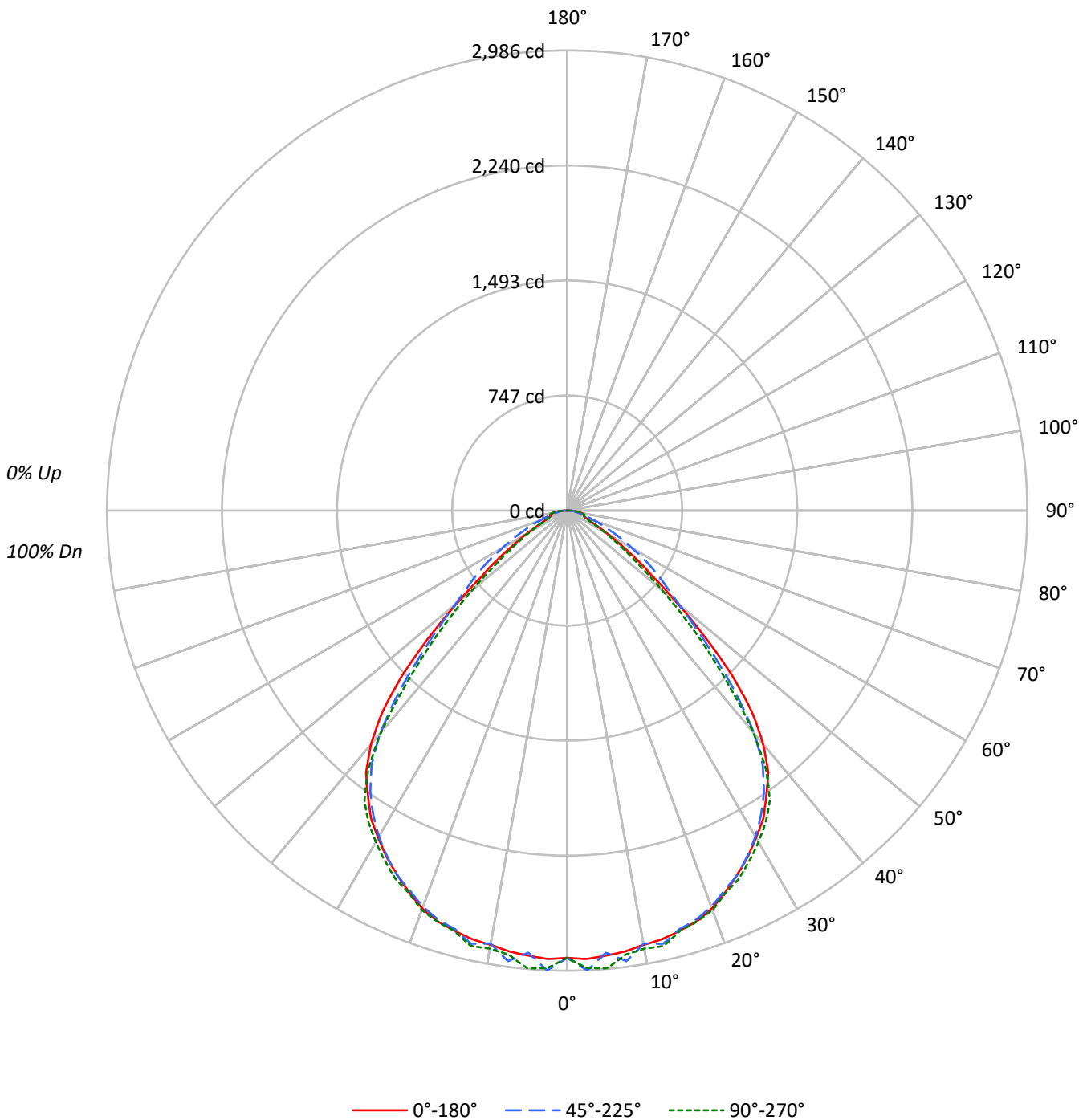
Input Watts (W): 47.337  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3906	3906	3906
5°	3915	3889	4027
10°	3908	3897	3944
15°	3931	3918	3933
20°	3934	3918	3950
25°	3873	3876	3914
30°	3809	3797	3858
35°	3701	3656	3766
40°	3476	3320	3302
45°	2881	2607	2472
50°	1938	1977	1689
55°	1278	1659	1108
60°	819	1309	759
65°	528	1000	513
70°	467	716	467
75°	603	569	608
80°	738	490	774
85°	858	727	903



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	278.0	4.7
10°-20°	798.1	13.6
20°-30°	1201.6	20.5
30°-40°	1392.7	23.7
40°-50°	1087.9	18.5
50°-60°	580.9	9.9
60°-70°	298.7	5.1
70°-80°	169.0	2.9
80°-90°	64.2	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°	2277.6	38.8
0°-40°	3670.3	62.5
0°-60°	5339.1	90.9
0°-90°	5871.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5871.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2903	2903	2903	2903	2903	
5°	2898	2979	2880	2959	2981	276
15°	2822	2840	2812	2830	2824	797
25°	2609	2600	2611	2607	2636	1202
35°	2253	2243	2226	2270	2293	1405
45°	1514	1515	1370	1358	1299	1141
55°	545	689	707	637	472	503
65°	166	346	314	345	161	182
75°	116	218	109	204	117	117
85°	56	73	47	73	58	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2903.0	2903.0	2903.0	2903.0	2903.0
2.5°	2912.5	2965.3	2986.0	2960.6	2971.9
5°	2898.3	2979.4	2879.5	2958.7	2981.3
7.5°	2885.1	2876.6	2949.2	2873.8	2905.9
10°	2860.6	2866.3	2852.1	2905.9	2887.0
12.5°	2849.3	2882.3	2879.5	2852.1	2893.6
15°	2822.0	2839.9	2812.5	2830.4	2823.8
17.5°	2794.6	2786.1	2783.3	2790.8	2797.4
20°	2747.5	2719.2	2736.2	2738.0	2758.8
22.5°	2679.6	2662.6	2666.4	2683.4	2685.2
25°	2608.9	2600.4	2610.8	2607.0	2636.2
27.5°	2535.3	2524.0	2530.6	2544.8	2562.7
30°	2451.4	2448.6	2443.9	2456.1	2483.5
32.5°	2368.4	2345.8	2342.0	2367.5	2398.6
35°	2253.4	2243.0	2226.1	2270.4	2293.0
37.5°	2144.0	2112.0	2084.6	2111.0	2120.5
40°	1979.0	1954.5	1890.4	1893.2	1880.0
42.5°	1776.3	1758.4	1635.8	1614.2	1577.4
45°	1514.2	1515.2	1370.0	1357.7	1299.3
47.5°	1209.7	1263.4	1137.1	1122.9	1036.2
50°	925.9	1023.0	944.7	922.1	807.1
52.5°	694.9	837.3	812.7	763.7	605.3
55°	545.0	689.2	707.1	637.4	472.4
57.5°	410.1	567.6	596.8	539.3	364.9
60°	304.5	478.0	486.5	463.9	281.9
62.5°	226.3	406.4	395.1	397.9	209.3
65°	165.9	346.0	314.0	345.1	161.2
67.5°	135.8	299.8	244.2	298.9	131.1
70°	118.8	265.9	182.0	263.1	118.8
72.5°	115.0	244.2	144.3	233.8	116.0
75°	116.0	217.8	109.4	203.7	116.9
77.5°	106.5	179.1	83.0	173.5	111.3
80°	95.2	135.8	63.2	137.7	99.9
82.5°	81.1	99.0	50.9	101.8	83.9
85°	55.6	72.6	47.1	72.6	58.5
87.5°	26.4	43.4	29.2	41.5	30.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)