

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: P294017

Luminaire Tested: **24GR-LD5-64-A19/156-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294017
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-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5880.0 lumens
Efficiency: N/A
Efficacy: 128.8 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

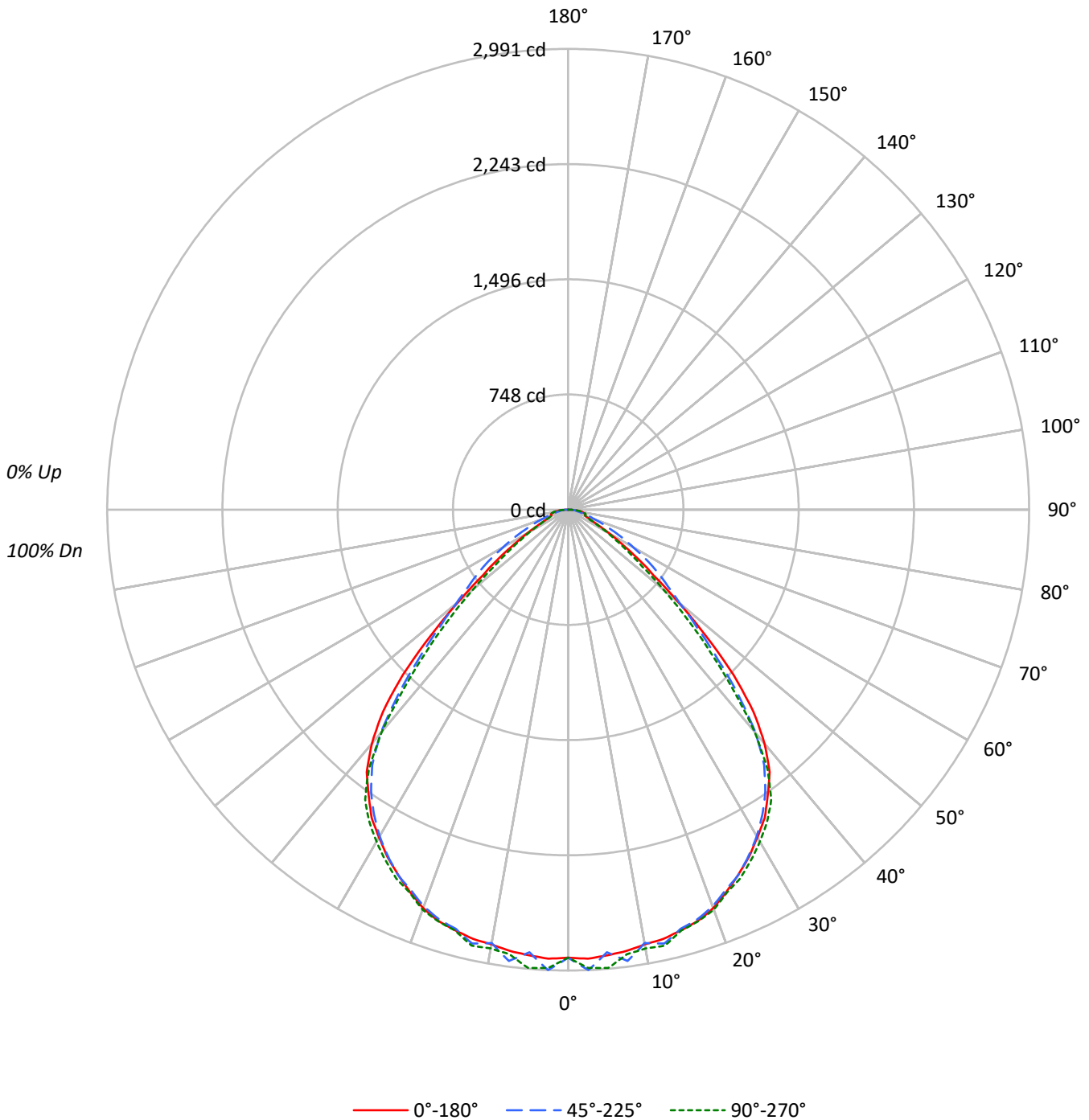
Input Watts (W): 45.663
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3912	3912	3912
5°	3921	3895	4033
10°	3914	3903	3950
15°	3937	3924	3940
20°	3940	3924	3956
25°	3879	3882	3920
30°	3814	3803	3864
35°	3707	3662	3772
40°	3481	3325	3307
45°	2886	2611	2476
50°	1941	1981	1692
55°	1280	1661	1110
60°	821	1311	760
65°	529	1001	514
70°	468	717	468
75°	604	569	609
80°	739	490	776
85°	860	729	903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.4	4.7
10°-20°	799.3	13.6
20°-30°	1203.4	20.5
30°-40°	1394.8	23.7
40°-50°	1089.6	18.5
50°-60°	581.8	9.9
60°-70°	299.2	5.1
70°-80°	169.2	2.9
80°-90°	64.3	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°	2281.1	38.8
0°-40°	3675.9	62.5
0°-60°	5347.3	90.9
0°-90°	5880.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5880.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2908	2908	2908	2908	2908	
5°	2903	2984	2884	2963	2986	276
15°	2826	2844	2817	2835	2828	798
25°	2613	2604	2615	2611	2640	1204
35°	2257	2246	2230	2274	2296	1407
45°	1516	1518	1372	1360	1301	1143
55°	546	690	708	638	473	504
65°	166	347	314	346	162	183
75°	116	218	110	204	117	118
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°	2907.5	2907.5	2907.5	2907.5	2907.5
2.5°	2916.9	2969.8	2990.6	2965.1	2976.4
5°	2902.8	2984.0	2883.9	2963.2	2985.9
7.5°	2889.5	2881.1	2953.8	2878.2	2910.3
10°	2865.0	2870.7	2856.5	2910.3	2891.4
12.5°	2853.7	2886.7	2883.9	2856.5	2898.0
15°	2826.3	2844.2	2816.8	2834.8	2828.2
17.5°	2798.9	2790.4	2787.6	2795.1	2801.7
20°	2751.7	2723.4	2740.4	2742.2	2763.0
22.5°	2683.7	2666.7	2670.5	2687.5	2689.4
25°	2612.9	2604.4	2614.8	2611.0	2640.3
27.5°	2539.2	2527.9	2534.5	2548.7	2566.6
30°	2455.2	2452.3	2447.6	2459.9	2487.3
32.5°	2372.1	2349.4	2345.6	2371.1	2402.3
35°	2256.9	2246.5	2229.5	2273.9	2296.5
37.5°	2147.3	2115.2	2087.8	2114.3	2123.7
40°	1982.1	1957.5	1893.3	1896.1	1882.9
42.5°	1779.1	1761.1	1638.4	1616.6	1579.8
45°	1516.5	1517.5	1372.1	1359.8	1301.2
47.5°	1211.5	1265.4	1138.8	1124.7	1037.8
50°	927.3	1024.6	946.2	923.5	808.3
52.5°	695.9	838.5	814.0	764.9	606.2
55°	545.8	690.3	708.2	638.3	473.1
57.5°	410.8	568.5	597.7	540.1	365.4
60°	305.0	478.8	487.3	464.6	282.3
62.5°	226.6	407.0	395.7	398.5	209.6
65°	166.2	346.6	314.5	345.6	161.5
67.5°	136.0	300.3	244.6	299.3	131.3
70°	119.0	266.3	182.2	263.5	119.0
72.5°	115.2	244.6	144.5	234.2	116.1
75°	116.1	218.1	109.5	204.0	117.1
77.5°	106.7	179.4	83.1	173.8	111.4
80°	95.4	136.0	63.3	137.9	100.1
82.5°	81.2	99.2	51.0	102.0	84.0
85°	55.7	72.7	47.2	72.7	58.5
87.5°	26.4	43.4	29.3	41.5	30.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)