

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: P294150

Luminaire Tested: **24GR-LD5-64-A19/156-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294150
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-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5911.0 lumens
Efficiency: N/A
Efficacy: 122.9 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

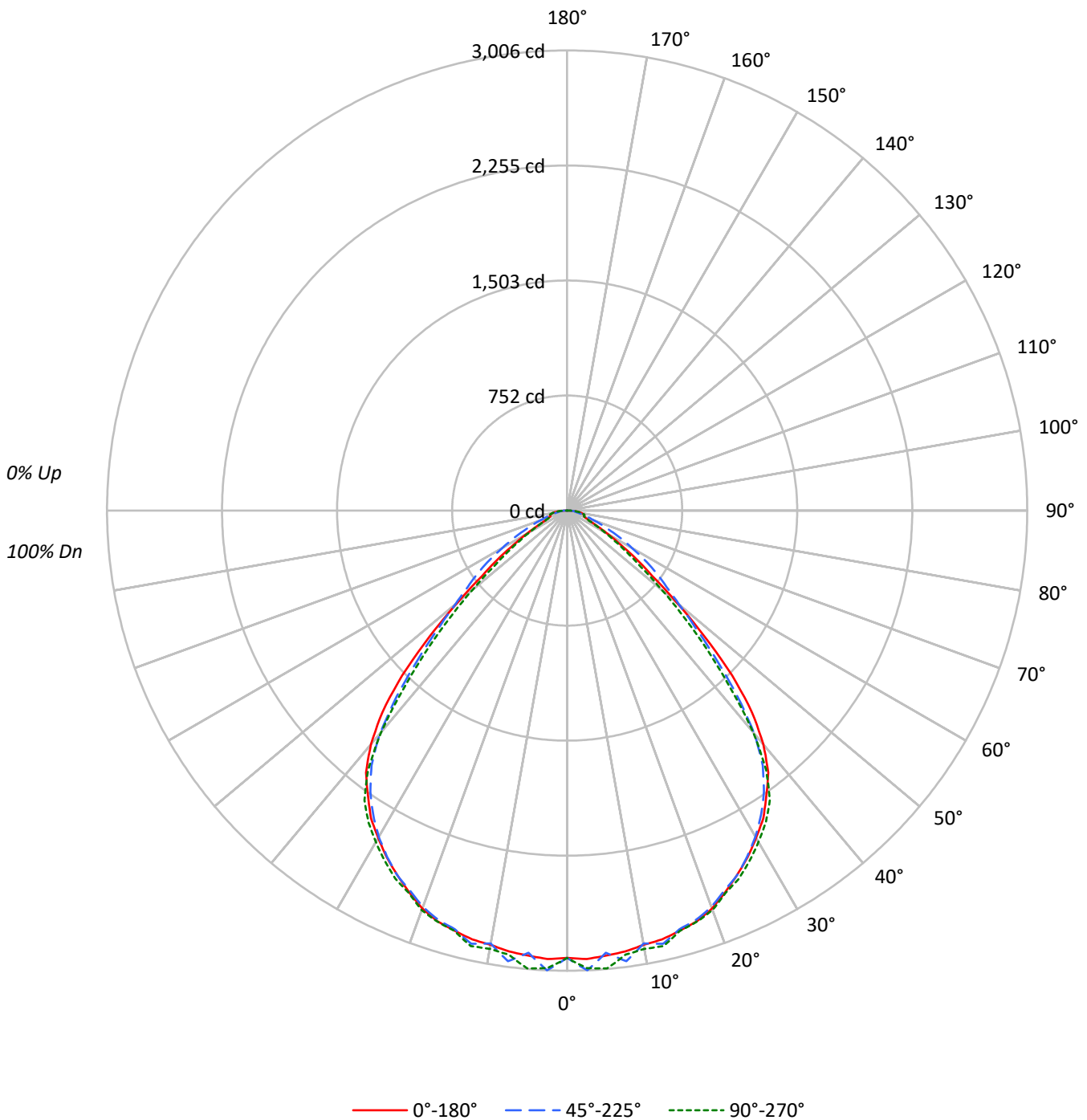
Input Watts (W): 48.081
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3933	3933	3933
5°	3941	3916	4054
10°	3935	3923	3971
15°	3958	3944	3960
20°	3961	3944	3977
25°	3899	3902	3940
30°	3835	3823	3885
35°	3727	3681	3792
40°	3500	3343	3325
45°	2901	2625	2489
50°	1951	1991	1701
55°	1287	1670	1116
60°	825	1318	764
65°	532	1006	517
70°	471	721	471
75°	607	572	612
80°	743	493	779
85°	865	733	909



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.8	4.7
10°-20°	803.6	13.6
20°-30°	1209.7	20.5
30°-40°	1402.2	23.7
40°-50°	1095.3	18.5
50°-60°	584.9	9.9
60°-70°	300.7	5.1
70°-80°	170.1	2.9
80°-90°	64.6	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°	2293.1	38.8
0°-40°	3695.3	62.5
0°-60°	5375.5	90.9
0°-90°	5911.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5911.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2923	2923	2923	2923	2923	
5°	2918	3000	2899	2979	3002	277
15°	2841	2859	2832	2850	2843	802
25°	2627	2618	2628	2625	2654	1210
35°	2269	2258	2241	2286	2309	1414
45°	1524	1526	1379	1367	1308	1149
55°	549	694	712	642	476	506
65°	167	348	316	347	162	184
75°	117	219	110	205	118	118
85°	56	73	48	73	59	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2922.8	2922.8	2922.8	2922.8	2922.8
2.5°	2932.3	2985.5	3006.4	2980.7	2992.1
5°	2918.1	2999.7	2899.1	2978.8	3001.6
7.5°	2904.8	2896.2	2969.3	2893.4	2925.7
10°	2880.1	2885.8	2871.6	2925.7	2906.7
12.5°	2868.7	2901.9	2899.1	2871.6	2913.3
15°	2841.2	2859.2	2831.7	2849.7	2843.1
17.5°	2813.7	2805.1	2802.3	2809.9	2816.5
20°	2766.2	2737.7	2754.8	2756.7	2777.6
22.5°	2697.8	2680.8	2684.6	2701.6	2703.5
25°	2626.6	2618.1	2628.5	2624.7	2654.2
27.5°	2552.6	2541.2	2547.9	2562.1	2580.1
30°	2468.1	2465.3	2460.5	2472.9	2500.4
32.5°	2384.6	2361.8	2358.0	2383.6	2415.0
35°	2268.8	2258.3	2241.2	2285.9	2308.6
37.5°	2158.7	2126.4	2098.8	2125.4	2134.9
40°	1992.5	1967.8	1903.3	1906.1	1892.9
42.5°	1788.4	1770.4	1647.0	1625.2	1588.1
45°	1524.5	1525.5	1379.3	1367.0	1308.1
47.5°	1217.9	1272.0	1144.8	1130.6	1043.3
50°	932.2	1030.0	951.2	928.4	812.6
52.5°	699.6	843.0	818.3	768.9	609.4
55°	548.7	693.9	712.0	641.7	475.6
57.5°	412.9	571.5	600.9	543.0	367.4
60°	306.6	481.3	489.8	467.0	283.8
62.5°	227.8	409.1	397.7	400.6	210.7
65°	167.1	348.4	316.1	347.4	162.3
67.5°	136.7	301.9	245.9	300.9	131.9
70°	119.6	267.7	183.2	264.8	119.6
72.5°	115.8	245.9	145.2	235.4	116.8
75°	116.8	219.3	110.1	205.0	117.7
77.5°	107.3	180.4	83.5	174.7	112.0
80°	95.9	136.7	63.6	138.6	100.6
82.5°	81.6	99.7	51.3	102.5	84.5
85°	56.0	73.1	47.5	73.1	58.9
87.5°	26.6	43.7	29.4	41.8	30.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)