

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: P293769

Luminaire Tested: **24GR-LD5-64-A125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293769
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-A125-UNV-L82765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6601.0 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

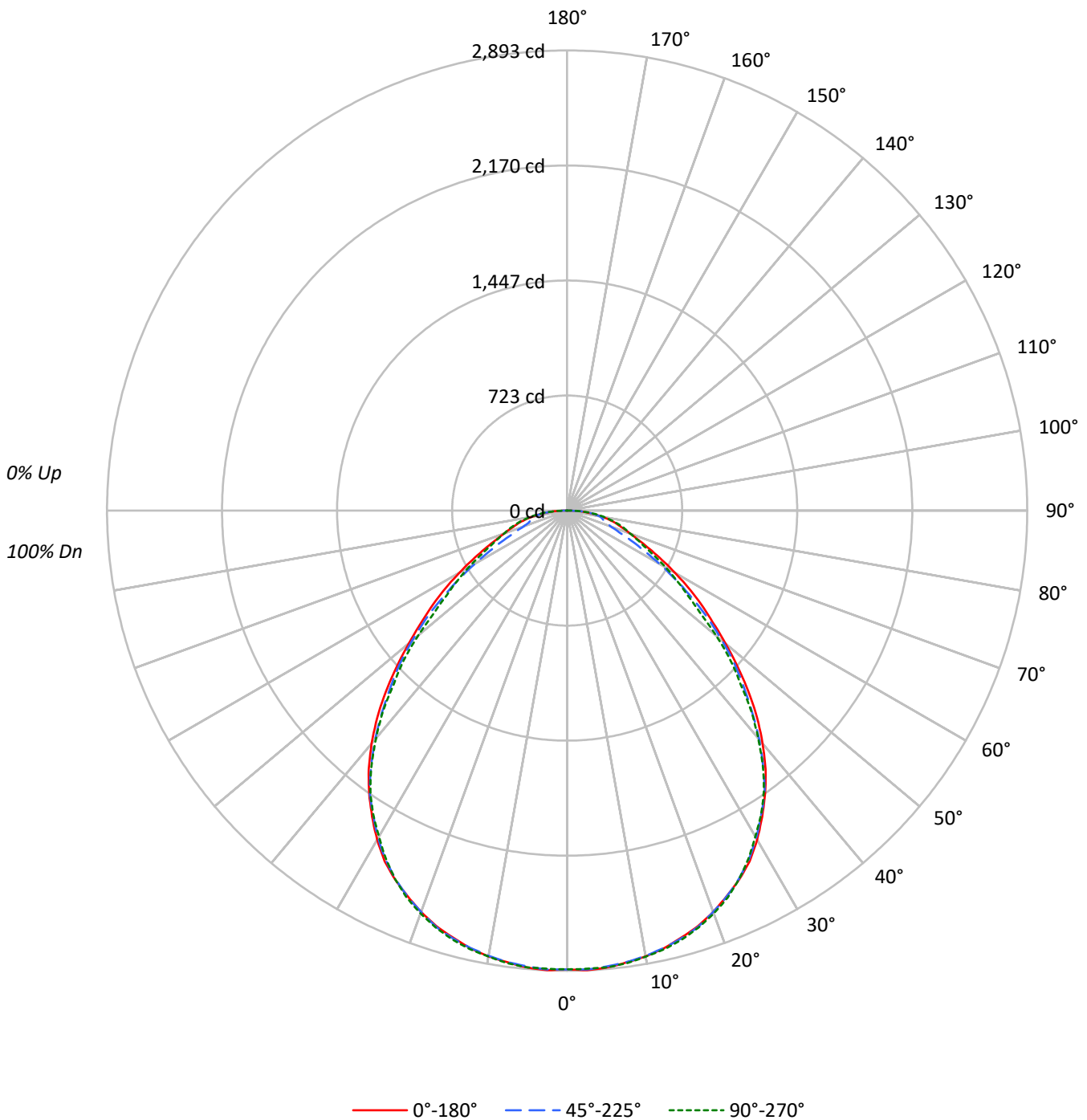
Input Watts (W): 47.058
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3881	3881	3881
5°	3894	3886	3893
10°	3889	3883	3890
15°	3870	3877	3887
20°	3844	3844	3859
25°	3801	3793	3796
30°	3712	3693	3675
35°	3566	3555	3542
40°	3359	3297	3283
45°	3072	2988	2933
50°	2716	2662	2559
55°	2416	2251	2164
60°	2103	1801	1932
65°	1816	1397	1708
70°	1657	1142	1653
75°	1670	1231	1756
80°	1740	1604	1851
85°	1812	1908	2050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.6	4.1
10°-20°	784.7	11.9
20°-30°	1174.6	17.8
30°-40°	1342.2	20.3
40°-50°	1213.5	18.4
50°-60°	873.0	13.2
60°-70°	506.1	7.7
70°-80°	300.2	4.5
80°-90°	133.0	2.0
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°	2232.9	33.8
0°-40°	3575.2	54.2
0°-60°	5661.7	85.8
0°-90°	6601.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6601.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2884	2884	2884	2884	2884	
5°	2883	2879	2877	2873	2882	274
15°	2778	2784	2784	2780	2791	784
25°	2560	2557	2555	2550	2557	1177
35°	2171	2160	2165	2138	2156	1353
45°	1615	1587	1570	1556	1542	1240
55°	1030	1010	960	935	923	921
65°	570	507	439	490	536	576
75°	321	269	237	292	338	340
85°	117	127	124	142	133	126
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2884.4	2884.4	2884.4	2884.4	2884.4
2.5°	2892.6	2882.3	2887.5	2884.4	2883.4
5°	2883.4	2879.3	2877.2	2873.1	2882.3
7.5°	2864.8	2861.8	2862.8	2863.8	2870.0
10°	2846.3	2841.2	2842.2	2844.2	2847.3
12.5°	2817.5	2814.4	2815.4	2817.5	2824.7
15°	2778.3	2783.5	2783.5	2780.4	2790.7
17.5°	2739.2	2738.2	2743.3	2734.1	2748.5
20°	2684.6	2685.7	2684.6	2685.7	2694.9
22.5°	2622.8	2628.0	2624.9	2624.9	2635.2
25°	2560.0	2556.9	2554.9	2549.7	2556.9
27.5°	2484.9	2478.7	2473.5	2463.2	2468.4
30°	2389.1	2390.1	2376.7	2367.5	2365.4
32.5°	2282.0	2282.0	2269.6	2262.4	2268.6
35°	2170.8	2160.5	2164.6	2137.8	2156.4
37.5°	2050.3	2033.8	2024.5	2015.3	2021.5
40°	1912.3	1890.7	1877.3	1858.7	1869.0
42.5°	1767.1	1740.3	1723.8	1710.5	1714.6
45°	1614.7	1586.9	1570.4	1556.0	1541.6
47.5°	1454.0	1436.5	1428.3	1409.8	1393.3
50°	1297.5	1291.3	1271.8	1256.3	1222.3
52.5°	1154.4	1149.2	1118.3	1092.6	1049.3
55°	1029.8	1010.2	959.8	935.0	922.7
57.5°	903.1	871.2	810.4	807.3	815.6
60°	781.6	742.5	669.4	685.8	717.8
62.5°	671.4	612.7	542.7	581.8	619.9
65°	570.5	506.7	438.7	490.2	536.5
67.5°	487.1	423.2	353.2	422.2	475.8
70°	421.2	356.3	290.4	369.7	420.1
72.5°	366.6	307.9	253.3	328.5	381.0
75°	321.3	268.8	236.8	292.5	337.8
77.5°	276.0	233.8	226.6	260.5	288.3
80°	224.5	204.9	207.0	228.6	238.9
82.5°	167.9	168.9	174.0	191.5	187.4
85°	117.4	126.7	123.6	142.1	132.8
87.5°	64.9	71.1	66.9	81.4	73.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)