

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: P293767

Luminaire Tested: **24GR-LD5-64-A125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293767
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6399.0 lumens
Efficiency: N/A
Efficacy: 137.6 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

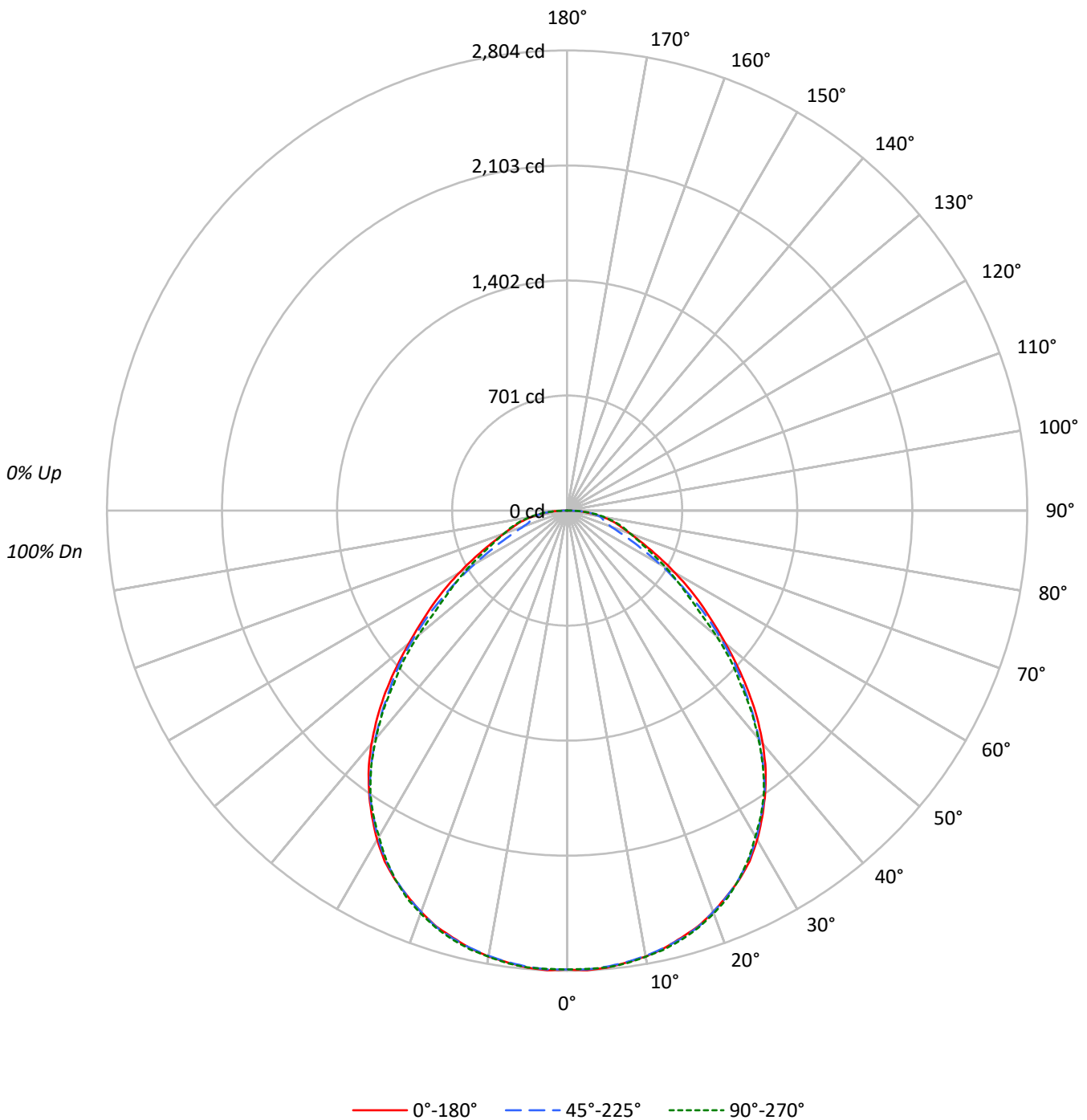
Input Watts (W): 46.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3762	3762	3762
5°	3775	3767	3774
10°	3770	3764	3771
15°	3752	3759	3768
20°	3726	3726	3741
25°	3684	3677	3680
30°	3598	3580	3562
35°	3456	3447	3434
40°	3256	3196	3182
45°	2978	2897	2844
50°	2633	2581	2480
55°	2342	2183	2098
60°	2039	1746	1872
65°	1761	1354	1656
70°	1606	1107	1602
75°	1619	1194	1702
80°	1686	1555	1795
85°	1757	1849	1988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.2	4.1
10°-20°	760.7	11.9
20°-30°	1138.7	17.8
30°-40°	1301.1	20.3
40°-50°	1176.4	18.4
50°-60°	846.3	13.2
60°-70°	490.6	7.7
70°-80°	291.0	4.5
80°-90°	128.9	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°	2164.6	33.8
0°-40°	3465.8	54.2
0°-60°	5488.4	85.8
0°-90°	6399.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6399.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2796	2796	2796	2796	2796	
5°	2795	2791	2789	2785	2794	266
15°	2693	2698	2698	2695	2705	760
25°	2482	2479	2477	2472	2479	1141
35°	2104	2094	2098	2072	2090	1312
45°	1565	1538	1522	1508	1494	1203
55°	998	979	930	906	894	893
65°	553	491	425	475	520	558
75°	312	260	230	284	327	329
85°	114	123	120	138	129	122
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2796.1	2796.1	2796.1	2796.1	2796.1
2.5°	2804.1	2794.1	2799.1	2796.1	2795.1
5°	2795.1	2791.1	2789.2	2785.2	2794.1
7.5°	2777.2	2774.2	2775.2	2776.2	2782.2
10°	2759.2	2754.2	2755.2	2757.2	2760.2
12.5°	2731.3	2728.3	2729.3	2731.3	2738.2
15°	2693.3	2698.3	2698.3	2695.3	2705.3
17.5°	2655.4	2654.4	2659.4	2650.4	2664.4
20°	2602.5	2603.5	2602.5	2603.5	2612.5
22.5°	2542.6	2547.6	2544.6	2544.6	2554.6
25°	2481.7	2478.7	2476.7	2471.7	2478.7
27.5°	2408.8	2402.8	2397.8	2387.9	2392.8
30°	2316.0	2317.0	2304.0	2295.0	2293.0
32.5°	2212.2	2212.2	2200.2	2193.2	2199.2
35°	2104.3	2094.4	2098.4	2072.4	2090.4
37.5°	1987.5	1971.6	1962.6	1953.6	1959.6
40°	1853.8	1832.8	1819.8	1801.9	1811.9
42.5°	1713.0	1687.1	1671.1	1658.1	1662.1
45°	1565.3	1538.3	1522.4	1508.4	1494.4
47.5°	1409.6	1392.6	1384.6	1366.6	1350.7
50°	1257.8	1251.8	1232.9	1217.9	1184.9
52.5°	1119.1	1114.1	1084.1	1059.2	1017.2
55°	998.3	979.3	930.4	906.4	894.4
57.5°	875.5	844.5	785.6	782.6	790.6
60°	757.7	719.7	648.9	664.8	695.8
62.5°	650.9	594.0	526.1	564.0	601.0
65°	553.0	491.1	425.3	475.2	520.1
67.5°	472.2	410.3	342.4	409.3	461.2
70°	408.3	345.4	281.5	358.4	407.3
72.5°	355.4	298.5	245.6	318.4	369.4
75°	311.5	260.5	229.6	283.5	327.4
77.5°	267.5	226.6	219.6	252.6	279.5
80°	217.6	198.7	200.7	221.6	231.6
82.5°	162.7	163.7	168.7	185.7	181.7
85°	113.8	122.8	119.8	137.8	128.8
87.5°	62.9	68.9	64.9	78.9	70.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)