

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: P293788

Luminaire Tested: **24GR-LD5-85-A125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293788
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-LD5-85-A125-UNV-L82765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8635.0 lumens
Efficiency: N/A
Efficacy: 134.6 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

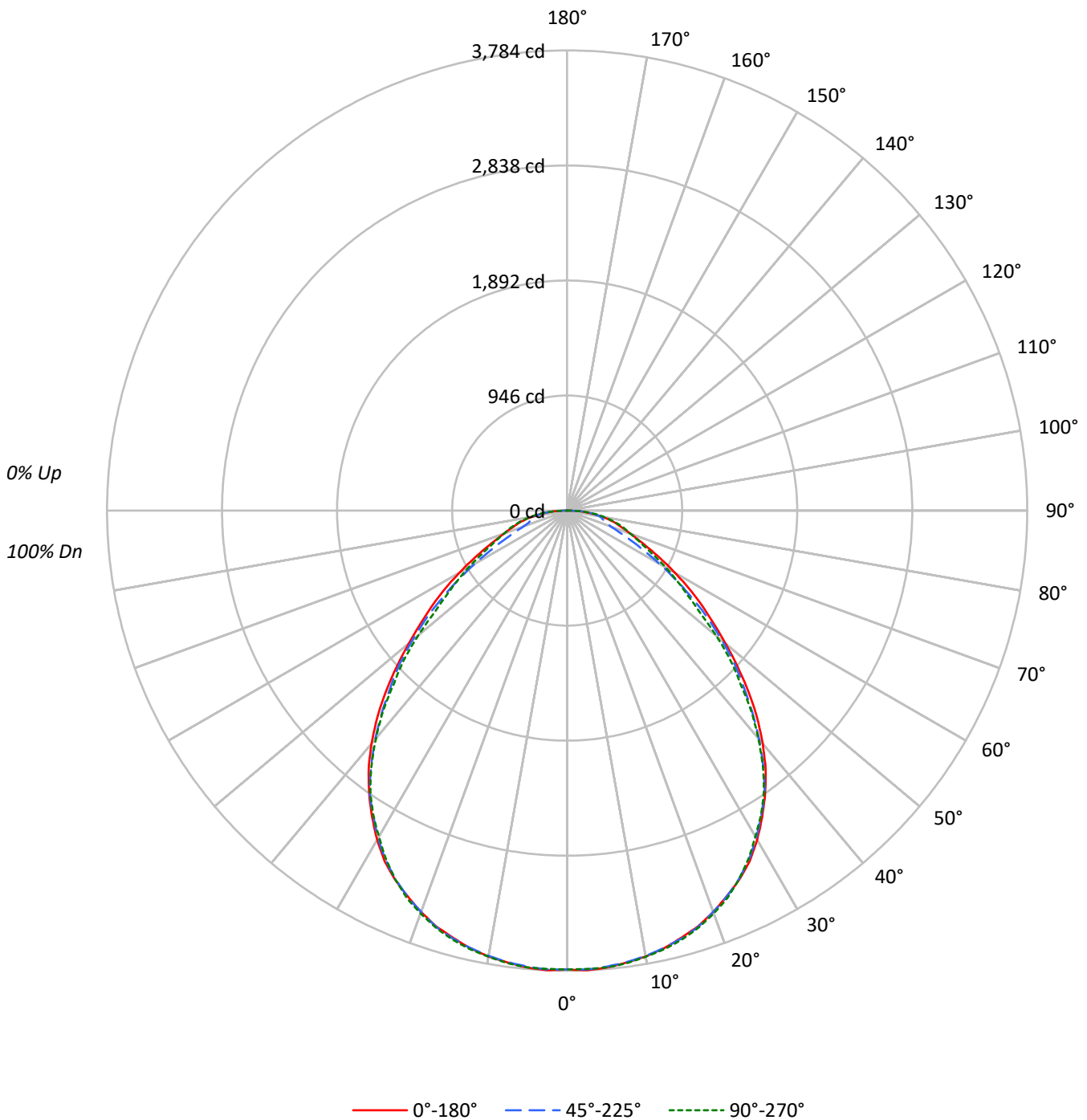
Input Watts (W): 64.17
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5077	5077	5077
5°	5094	5083	5093
10°	5087	5080	5089
15°	5063	5072	5085
20°	5028	5028	5048
25°	4972	4962	4966
30°	4855	4830	4807
35°	4664	4651	4633
40°	4394	4313	4294
45°	4019	3909	3837
50°	3553	3482	3347
55°	3160	2945	2831
60°	2751	2356	2527
65°	2376	1827	2234
70°	2168	1495	2162
75°	2185	1611	2297
80°	2276	2098	2421
85°	2371	2496	2683



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.9	4.1
10°-20°	1026.5	11.9
20°-30°	1536.6	17.8
30°-40°	1755.8	20.3
40°-50°	1587.4	18.4
50°-60°	1142.0	13.2
60°-70°	662.1	7.7
70°-80°	392.8	4.5
80°-90°	174.0	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°	2921.0	33.8
0°-40°	4676.8	54.2
0°-60°	7406.2	85.8
0°-90°	8635.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8635.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3773	3773	3773	3773	3773	
5°	3772	3766	3764	3758	3770	358
15°	3634	3641	3641	3637	3651	1026
25°	3349	3345	3342	3335	3345	1540
35°	2840	2826	2832	2797	2821	1770
45°	2112	2076	2054	2036	2017	1623
55°	1347	1322	1256	1223	1207	1205
65°	746	663	574	641	702	753
75°	420	352	310	383	442	444
85°	154	166	162	186	174	165
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3773.2	3773.2	3773.2	3773.2	3773.2
2.5°	3784.0	3770.5	3777.2	3773.2	3771.8
5°	3771.8	3766.5	3763.8	3758.4	3770.5
7.5°	3747.6	3743.6	3744.9	3746.3	3754.3
10°	3723.4	3716.6	3718.0	3720.7	3724.7
12.5°	3685.6	3681.6	3682.9	3685.6	3695.1
15°	3634.4	3641.2	3641.2	3637.1	3650.6
17.5°	3583.3	3581.9	3588.6	3576.5	3595.4
20°	3511.9	3513.2	3511.9	3513.2	3525.3
22.5°	3431.0	3437.8	3433.7	3433.7	3447.2
25°	3348.9	3344.8	3342.1	3335.4	3344.8
27.5°	3250.5	3242.4	3235.7	3222.2	3229.0
30°	3125.2	3126.6	3109.1	3097.0	3094.3
32.5°	2985.1	2985.1	2969.0	2959.6	2967.6
35°	2839.7	2826.2	2831.6	2796.6	2820.8
37.5°	2682.1	2660.5	2648.4	2636.3	2644.3
40°	2501.5	2473.3	2455.7	2431.5	2445.0
42.5°	2311.6	2276.6	2255.0	2237.5	2242.9
45°	2112.2	2075.9	2054.3	2035.5	2016.6
47.5°	1902.1	1879.2	1868.4	1844.2	1822.6
50°	1697.3	1689.2	1663.7	1643.4	1599.0
52.5°	1510.1	1503.4	1462.9	1429.3	1372.7
55°	1347.1	1321.5	1255.5	1223.2	1207.0
57.5°	1181.4	1139.6	1060.2	1056.1	1066.9
60°	1022.4	971.3	875.6	897.2	938.9
62.5°	878.3	801.5	709.9	761.1	810.9
65°	746.3	662.8	573.9	641.2	701.8
67.5°	637.2	553.7	462.1	552.3	622.4
70°	551.0	466.1	379.9	483.6	549.6
72.5°	479.6	402.8	331.4	429.7	498.4
75°	420.3	351.6	309.8	382.6	441.8
77.5°	361.0	305.8	296.4	340.8	377.2
80°	293.7	268.1	270.8	299.1	312.5
82.5°	219.6	220.9	227.7	250.6	245.2
85°	153.6	165.7	161.7	185.9	173.8
87.5°	84.9	92.9	87.6	106.4	95.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)