

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: P293782

Luminaire Tested: **24GR-LD5-85-A125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293782
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-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7620.0 lumens
Efficiency: N/A
Efficacy: 122.1 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

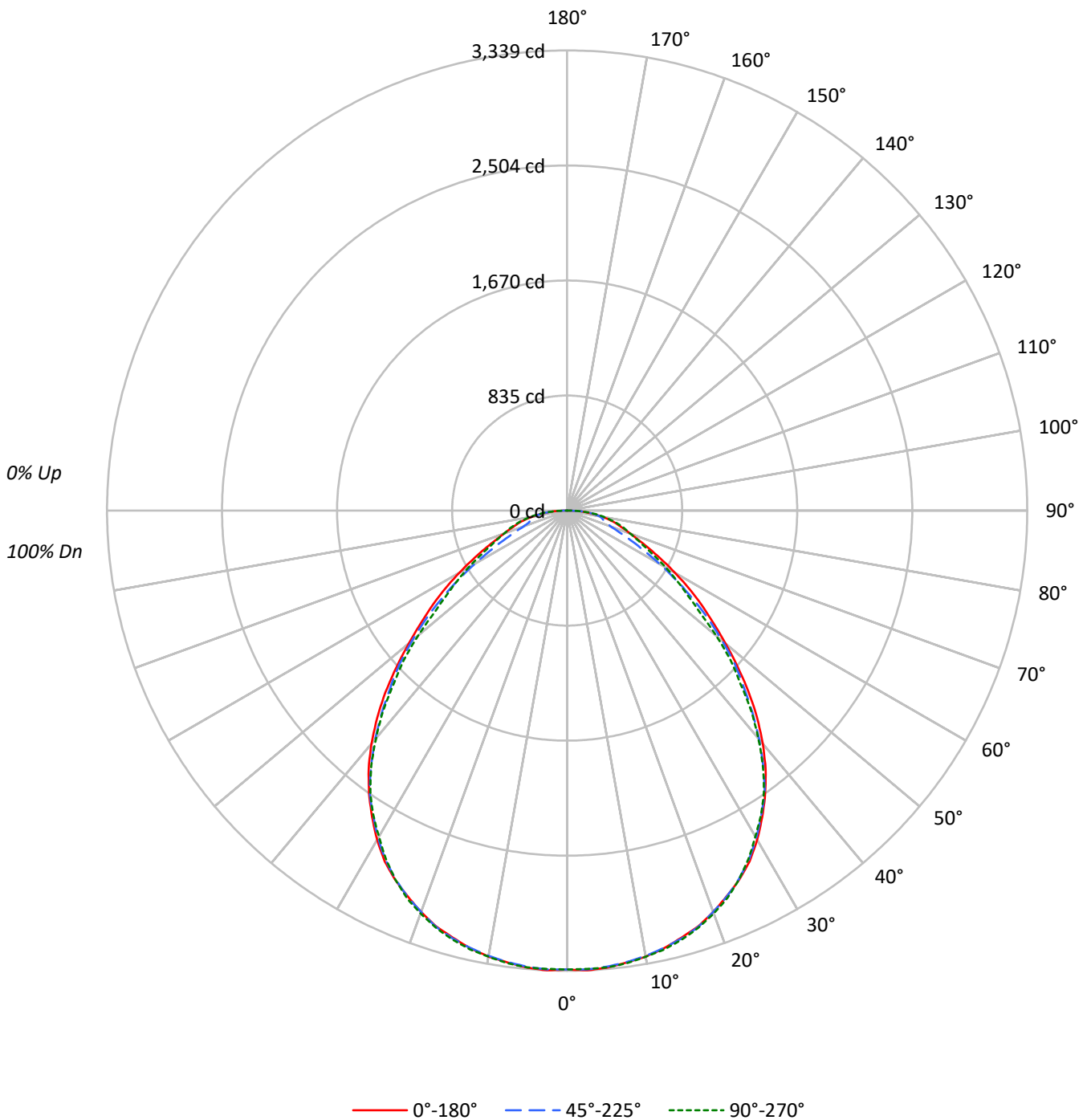
Input Watts (W): 62.403
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293782

CATALOG NUMBER: 24GR-LD5-85-A125-UNV-L82765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P293782

CATALOG NUMBER: 24GR-LD5-85-A125-UNV-L82765-W2A1-U-2700K

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°	4480	4480	4480
5°	4496	4486	4494
10°	4489	4483	4491
15°	4467	4476	4487
20°	4437	4437	4454
25°	4387	4378	4382
30°	4285	4263	4242
35°	4116	4104	4089
40°	3877	3806	3790
45°	3547	3449	3386
50°	3135	3073	2954
55°	2788	2599	2499
60°	2428	2079	2230
65°	2097	1612	1972
70°	1913	1319	1908
75°	1928	1421	2027
80°	2008	1851	2137
85°	2092	2201	2367



TEST NUMBER: P293782

CATALOG NUMBER: 24GR-LD5-85-A125-UNV-L82765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.9	4.1
10°-20°	905.9	11.9
20°-30°	1355.9	17.8
30°-40°	1549.4	20.3
40°-50°	1400.8	18.4
50°-60°	1007.8	13.2
60°-70°	584.3	7.7
70°-80°	346.6	4.5
80°-90°	153.5	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°	2577.6	33.8
0°-40°	4127.1	54.2
0°-60°	6535.7	85.8
0°-90°	7620.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7620.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3330	3330	3330	3330	3330	
5°	3328	3324	3321	3317	3327	316
15°	3207	3213	3213	3210	3222	905
25°	2955	2952	2949	2943	2952	1359
35°	2506	2494	2499	2468	2489	1562
45°	1864	1832	1813	1796	1780	1432
55°	1189	1166	1108	1079	1065	1063
65°	659	585	506	566	619	665
75°	371	310	273	338	390	392
85°	136	146	143	164	153	145
90°	0	0	0	0	0	



TEST NUMBER: P293782

CATALOG NUMBER: 24GR-LD5-85-A125-UNV-L82765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3329.7	3329.7	3329.7	3329.7	3329.7
2.5°	3339.2	3327.3	3333.2	3329.7	3328.5
5°	3328.5	3323.7	3321.4	3316.6	3327.3
7.5°	3307.1	3303.5	3304.7	3305.9	3313.0
10°	3285.7	3279.7	3280.9	3283.3	3286.9
12.5°	3252.4	3248.8	3250.0	3252.4	3260.7
15°	3207.2	3213.2	3213.2	3209.6	3221.5
17.5°	3162.1	3160.9	3166.8	3156.1	3172.8
20°	3099.1	3100.2	3099.1	3100.2	3110.9
22.5°	3027.7	3033.7	3030.1	3030.1	3042.0
25°	2955.2	2951.7	2949.3	2943.3	2951.7
27.5°	2868.4	2861.3	2855.4	2843.5	2849.4
30°	2757.9	2759.1	2743.6	2732.9	2730.5
32.5°	2634.3	2634.3	2620.0	2611.7	2618.8
35°	2505.9	2494.0	2498.7	2467.8	2489.2
37.5°	2366.8	2347.8	2337.1	2326.4	2333.5
40°	2207.5	2182.5	2167.1	2145.7	2157.6
42.5°	2039.9	2009.0	1990.0	1974.5	1979.3
45°	1864.0	1831.9	1812.8	1796.2	1779.6
47.5°	1678.5	1658.3	1648.8	1627.4	1608.4
50°	1497.8	1490.7	1468.1	1450.3	1411.0
52.5°	1332.6	1326.6	1291.0	1261.3	1211.3
55°	1188.7	1166.2	1107.9	1079.4	1065.1
57.5°	1042.5	1005.7	935.5	932.0	941.5
60°	902.3	857.1	772.7	791.7	828.6
62.5°	775.1	707.3	626.5	671.6	715.6
65°	658.6	584.9	506.4	565.8	619.3
67.5°	562.3	488.6	407.7	487.4	549.2
70°	486.2	411.3	335.2	426.8	485.0
72.5°	423.2	355.4	292.4	379.2	439.8
75°	370.9	310.3	273.4	337.6	389.9
77.5°	318.6	269.8	261.5	300.8	332.8
80°	259.1	236.6	238.9	263.9	275.8
82.5°	193.8	195.0	200.9	221.1	216.4
85°	135.5	146.2	142.6	164.0	153.3
87.5°	74.9	82.0	77.3	93.9	84.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)