

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: P293915

Luminaire Tested: **24GR-LD5-85-A125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293915
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-L92765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7829.0 lumens
Efficiency: N/A
Efficacy: 121.8 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

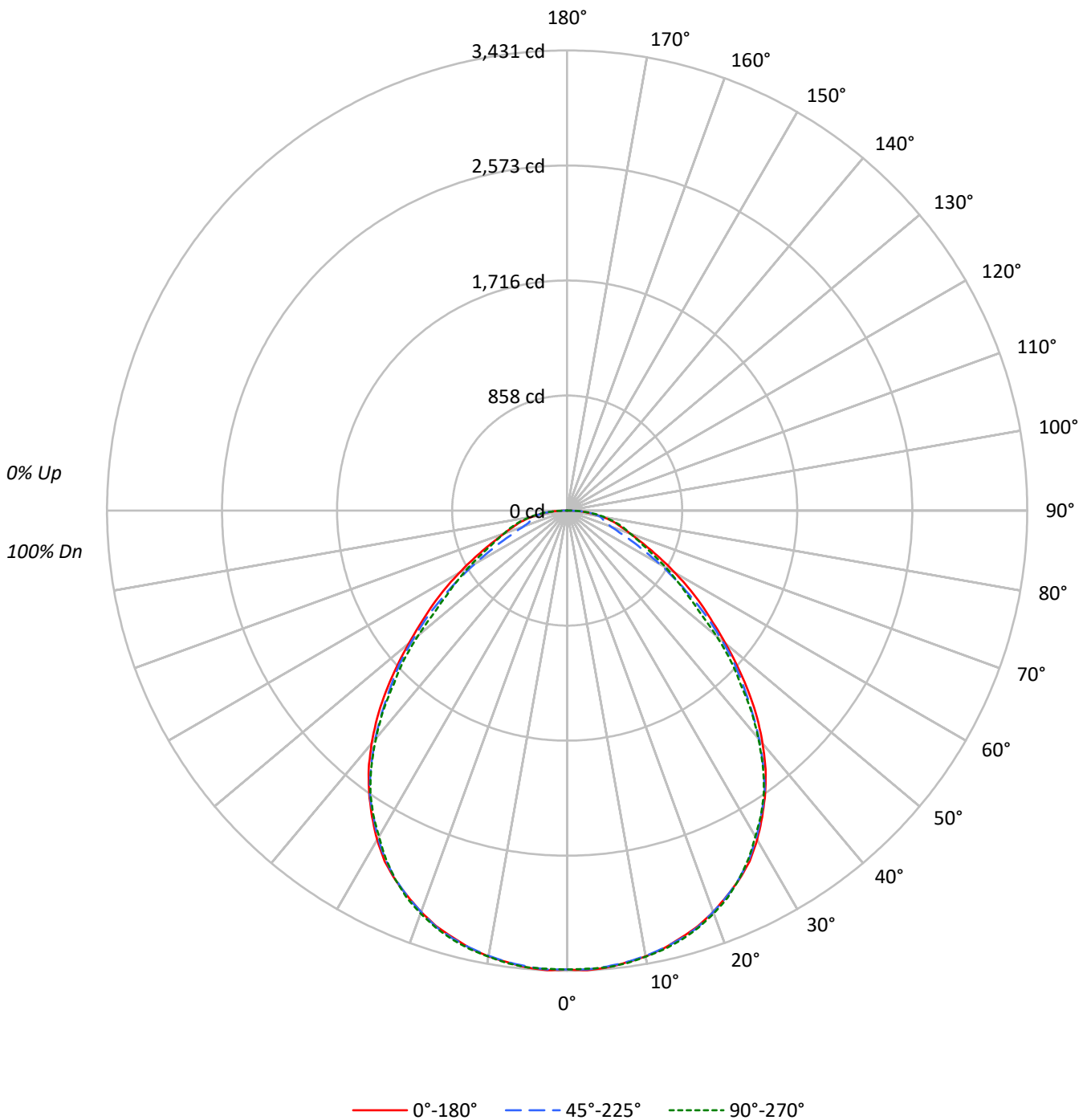
Input Watts (W): 64.263
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4603	4603	4603
5°	4619	4609	4617
10°	4612	4605	4614
15°	4590	4599	4611
20°	4559	4559	4577
25°	4508	4499	4502
30°	4402	4380	4359
35°	4229	4217	4201
40°	3984	3911	3893
45°	3644	3544	3479
50°	3221	3157	3035
55°	2865	2670	2567
60°	2495	2136	2291
65°	2154	1656	2026
70°	1965	1355	1960
75°	1981	1460	2083
80°	2063	1902	2196
85°	2149	2263	2433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.5	4.1
10°-20°	930.7	11.9
20°-30°	1393.1	17.8
30°-40°	1591.9	20.3
40°-50°	1439.2	18.4
50°-60°	1035.4	13.2
60°-70°	600.3	7.7
70°-80°	356.1	4.5
80°-90°	157.7	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°	2648.4	33.8
0°-40°	4240.3	54.2
0°-60°	6714.9	85.8
0°-90°	7829.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7829.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3421	3421	3421	3421	3421	
5°	3420	3415	3412	3408	3419	325
15°	3295	3301	3301	3298	3310	930
25°	3036	3033	3030	3024	3033	1396
35°	2575	2562	2567	2536	2558	1605
45°	1915	1882	1863	1846	1828	1471
55°	1221	1198	1138	1109	1094	1093
65°	677	601	520	581	636	683
75°	381	319	281	347	401	403
85°	139	150	147	168	158	149
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3421.0	3421.0	3421.0	3421.0	3421.0
2.5°	3430.8	3418.6	3424.7	3421.0	3419.8
5°	3419.8	3414.9	3412.5	3407.6	3418.6
7.5°	3397.8	3394.1	3395.4	3396.6	3403.9
10°	3375.8	3369.7	3370.9	3373.4	3377.0
12.5°	3341.6	3337.9	3339.2	3341.6	3350.2
15°	3295.2	3301.3	3301.3	3297.6	3309.9
17.5°	3248.8	3247.6	3253.7	3242.7	3259.8
20°	3184.1	3185.3	3184.1	3185.3	3196.3
22.5°	3110.8	3116.9	3113.2	3113.2	3125.4
25°	3036.3	3032.6	3030.2	3024.1	3032.6
27.5°	2947.1	2939.8	2933.7	2921.5	2927.6
30°	2833.5	2834.8	2818.9	2807.9	2805.4
32.5°	2706.5	2706.5	2691.9	2683.3	2690.6
35°	2574.6	2562.4	2567.3	2535.5	2557.5
37.5°	2431.7	2412.2	2401.2	2390.2	2397.5
40°	2268.0	2242.4	2226.5	2204.5	2216.7
42.5°	2095.8	2064.1	2044.5	2028.7	2033.5
45°	1915.1	1882.1	1862.6	1845.5	1828.4
47.5°	1724.5	1703.8	1694.0	1672.0	1652.5
50°	1538.9	1531.6	1508.4	1490.0	1449.7
52.5°	1369.1	1363.0	1326.4	1295.9	1244.6
55°	1221.3	1198.1	1138.3	1109.0	1094.3
57.5°	1071.1	1033.3	961.2	957.5	967.3
60°	927.0	880.6	793.9	813.4	851.3
62.5°	796.3	726.7	643.7	690.1	735.3
65°	676.6	600.9	520.3	581.4	636.3
67.5°	577.7	502.0	418.9	500.8	564.3
70°	499.5	422.6	344.4	438.5	498.3
72.5°	434.8	365.2	300.5	389.6	451.9
75°	381.1	318.8	280.9	346.9	400.6
77.5°	327.3	277.2	268.7	309.0	342.0
80°	266.3	243.0	245.5	271.1	283.4
82.5°	199.1	200.3	206.4	227.2	222.3
85°	139.2	150.2	146.6	168.5	157.6
87.5°	76.9	84.3	79.4	96.5	86.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)