

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: P293778

Luminaire Tested: **24GR-LD5-72-A125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293778
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-LD5-72-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: 7458.0 lumens
Efficiency: N/A
Efficacy: 138.7 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

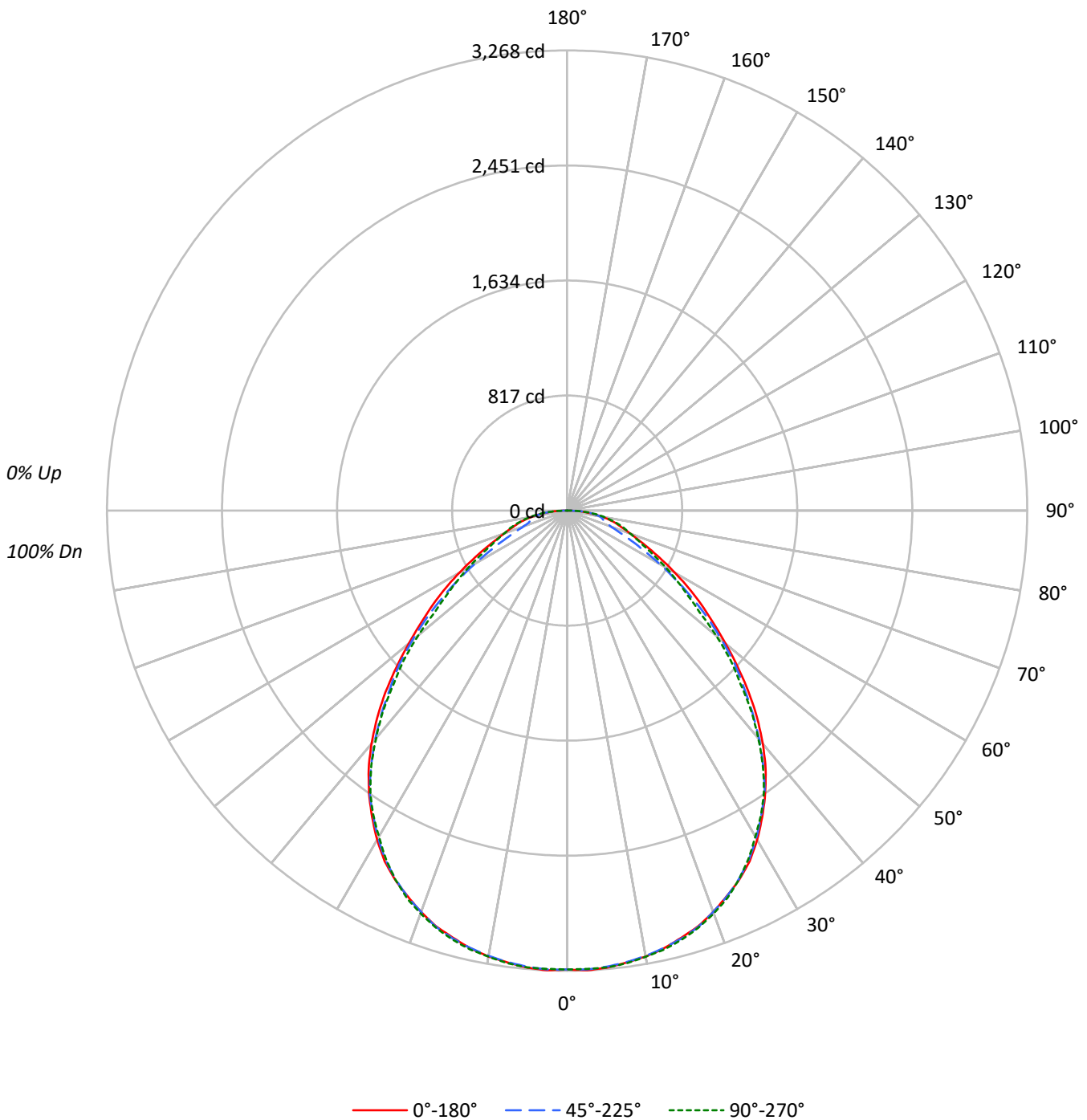
Input Watts (W): 53.754
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293778

CATALOG NUMBER: 24GR-LD5-72-A125-UNV-L82765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P293778

CATALOG NUMBER: 24GR-LD5-72-A125-UNV-L82765-W2A1-U-5000K

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°	4385	4385	4385
5°	4400	4390	4398
10°	4394	4387	4395
15°	4372	4381	4392
20°	4343	4343	4360
25°	4294	4285	4289
30°	4194	4172	4152
35°	4028	4017	4002
40°	3795	3725	3709
45°	3471	3376	3314
50°	3069	3008	2891
55°	2729	2544	2445
60°	2376	2035	2182
65°	2052	1578	1930
70°	1872	1291	1867
75°	1887	1391	1984
80°	1965	1812	2091
85°	2047	2155	2317



TEST NUMBER: P293778

CATALOG NUMBER: 24GR-LD5-72-A125-UNV-L82765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.1	4.1
10°-20°	886.6	11.9
20°-30°	1327.1	17.8
30°-40°	1516.5	20.3
40°-50°	1371.0	18.4
50°-60°	986.4	13.2
60°-70°	571.8	7.7
70°-80°	339.2	4.5
80°-90°	150.2	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°	2522.9	33.8
0°-40°	4039.3	54.2
0°-60°	6396.7	85.8
0°-90°	7458.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7458.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3259	3259	3259	3259	3259	
5°	3258	3253	3251	3246	3257	309
15°	3139	3145	3145	3141	3153	886
25°	2892	2889	2887	2881	2889	1330
35°	2453	2441	2446	2415	2436	1529
45°	1824	1793	1774	1758	1742	1401
55°	1164	1141	1084	1056	1042	1041
65°	645	572	496	554	606	651
75°	363	304	268	330	382	384
85°	133	143	140	161	150	142
90°	0	0	0	0	0	



TEST NUMBER: P293778

CATALOG NUMBER: 24GR-LD5-72-A125-UNV-L82765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3258.9	3258.9	3258.9	3258.9	3258.9
2.5°	3268.2	3256.6	3262.4	3258.9	3257.7
5°	3257.7	3253.1	3250.7	3246.1	3256.6
7.5°	3236.8	3233.3	3234.5	3235.6	3242.6
10°	3215.8	3210.0	3211.2	3213.5	3217.0
12.5°	3183.3	3179.8	3180.9	3183.3	3191.4
15°	3139.0	3144.9	3144.9	3141.4	3153.0
17.5°	3094.8	3093.7	3099.5	3089.0	3105.3
20°	3033.2	3034.3	3033.2	3034.3	3044.8
22.5°	2963.4	2969.2	2965.7	2965.7	2977.3
25°	2892.4	2888.9	2886.6	2880.8	2888.9
27.5°	2807.5	2800.5	2794.7	2783.0	2788.8
30°	2699.3	2700.4	2685.3	2674.8	2672.5
32.5°	2578.3	2578.3	2564.3	2556.1	2563.1
35°	2452.6	2441.0	2445.6	2415.4	2436.3
37.5°	2316.5	2297.9	2287.4	2276.9	2283.9
40°	2160.6	2136.1	2121.0	2100.1	2111.7
42.5°	1996.5	1966.3	1947.7	1932.5	1937.2
45°	1824.3	1792.9	1774.3	1758.0	1741.7
47.5°	1642.8	1623.0	1613.7	1592.8	1574.2
50°	1466.0	1459.0	1436.9	1419.4	1381.0
52.5°	1304.3	1298.4	1263.5	1234.4	1185.6
55°	1163.5	1141.4	1084.4	1056.4	1042.5
57.5°	1020.4	984.3	915.7	912.2	921.5
60°	883.1	838.9	756.3	774.9	810.9
62.5°	758.6	692.3	613.2	657.4	700.4
65°	644.6	572.4	495.6	553.8	606.2
67.5°	550.3	478.2	399.1	477.0	537.5
70°	475.9	402.6	328.1	417.7	474.7
72.5°	414.2	347.9	286.2	371.1	430.5
75°	363.0	303.7	267.6	330.4	381.6
77.5°	311.8	264.1	256.0	294.4	325.8
80°	253.6	231.5	233.9	258.3	269.9
82.5°	189.6	190.8	196.6	216.4	211.8
85°	132.6	143.1	139.6	160.6	150.1
87.5°	73.3	80.3	75.6	91.9	82.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)