

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: P293773

Luminaire Tested: **24GR-LD5-72-A125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293773  
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-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: 6647.0 lumens  
Efficiency: N/A  
Efficacy: 126.5 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

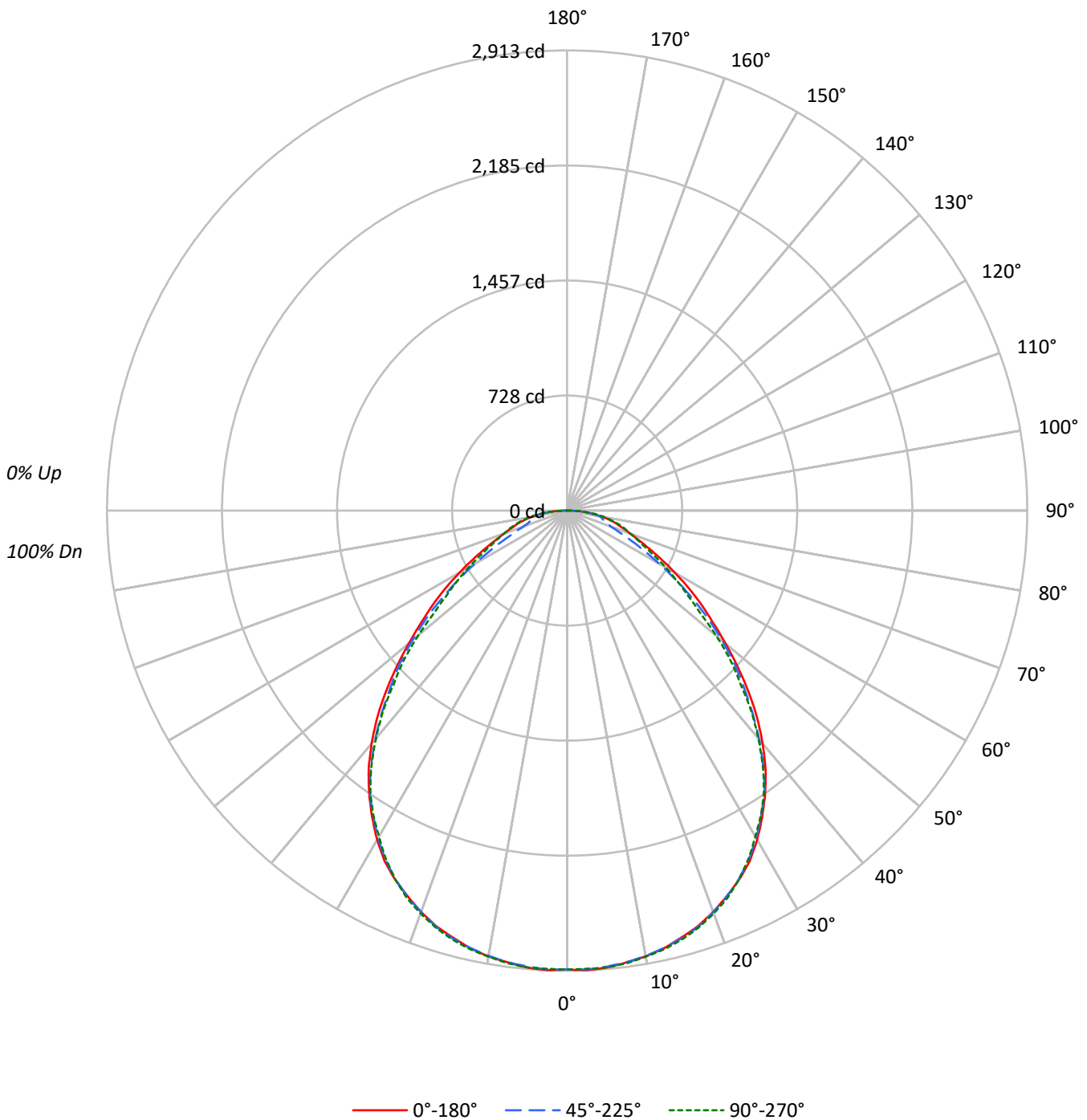
Input Watts (W): 52.545  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3908	3908	3908
5°	3922	3913	3920
10°	3916	3910	3917
15°	3897	3904	3914
20°	3871	3871	3886
25°	3827	3819	3823
30°	3738	3718	3701
35°	3590	3580	3567
40°	3382	3320	3306
45°	3094	3009	2954
50°	2735	2681	2577
55°	2433	2267	2179
60°	2118	1814	1945
65°	1829	1406	1720
70°	1668	1150	1664
75°	1682	1240	1768
80°	1752	1615	1864
85°	1825	1920	2066



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.5	4.1
10°-20°	790.2	11.9
20°-30°	1182.8	17.8
30°-40°	1351.6	20.3
40°-50°	1221.9	18.4
50°-60°	879.1	13.2
60°-70°	509.7	7.7
70°-80°	302.3	4.5
80°-90°	133.9	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°	2248.5	33.8
0°-40°	3600.1	54.2
0°-60°	5701.1	85.8
0°-90°	6647.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6647.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2904	2904	2904	2904	2904	
5°	2904	2899	2897	2893	2902	276
15°	2798	2803	2803	2800	2810	790
25°	2578	2575	2573	2568	2575	1185
35°	2186	2176	2180	2153	2171	1363
45°	1626	1598	1581	1567	1552	1249
55°	1037	1017	966	942	929	928
65°	574	510	442	494	540	580
75°	324	271	238	294	340	342
85°	118	128	124	143	134	127
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2904.5	2904.5	2904.5	2904.5	2904.5
2.5°	2912.8	2902.4	2907.6	2904.5	2903.5
5°	2903.5	2899.3	2897.2	2893.1	2902.4
7.5°	2884.8	2881.7	2882.7	2883.8	2890.0
10°	2866.1	2861.0	2862.0	2864.1	2867.2
12.5°	2837.1	2834.0	2835.0	2837.1	2844.4
15°	2797.7	2802.9	2802.9	2799.8	2810.1
17.5°	2758.3	2757.3	2762.4	2753.1	2767.6
20°	2703.3	2704.4	2703.3	2704.4	2713.7
22.5°	2641.1	2646.3	2643.2	2643.2	2653.6
25°	2577.9	2574.8	2572.7	2567.5	2574.8
27.5°	2502.2	2495.9	2490.8	2480.4	2485.6
30°	2405.7	2406.8	2393.3	2384.0	2381.9
32.5°	2297.9	2297.9	2285.4	2278.2	2284.4
35°	2185.9	2175.5	2179.7	2152.7	2171.4
37.5°	2064.6	2048.0	2038.7	2029.3	2035.5
40°	1925.6	1903.8	1890.4	1871.7	1882.1
42.5°	1779.4	1752.5	1735.9	1722.4	1726.5
45°	1625.9	1597.9	1581.4	1566.8	1552.3
47.5°	1464.2	1446.6	1438.3	1419.6	1403.0
50°	1306.6	1300.3	1280.6	1265.1	1230.9
52.5°	1162.4	1157.2	1126.1	1100.2	1056.7
55°	1037.0	1017.3	966.4	941.6	929.1
57.5°	909.4	877.3	816.1	813.0	821.3
60°	787.0	747.6	674.0	690.6	722.8
62.5°	676.1	617.0	546.5	585.9	624.2
65°	574.5	510.2	441.7	493.6	540.3
67.5°	490.5	426.2	355.7	425.2	479.1
70°	424.1	358.8	292.4	372.3	423.1
72.5°	369.2	310.0	255.1	330.8	383.7
75°	323.5	270.6	238.5	294.5	340.1
77.5°	277.9	235.4	228.1	262.3	290.3
80°	226.1	206.4	208.4	230.2	240.6
82.5°	169.0	170.1	175.2	192.9	188.7
85°	118.2	127.5	124.4	143.1	133.8
87.5°	65.3	71.5	67.4	81.9	73.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)