

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: P293774

Luminaire Tested: **24GR-LD5-72-A125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293774
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-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6839.0 lumens
Efficiency: N/A
Efficacy: 131.1 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

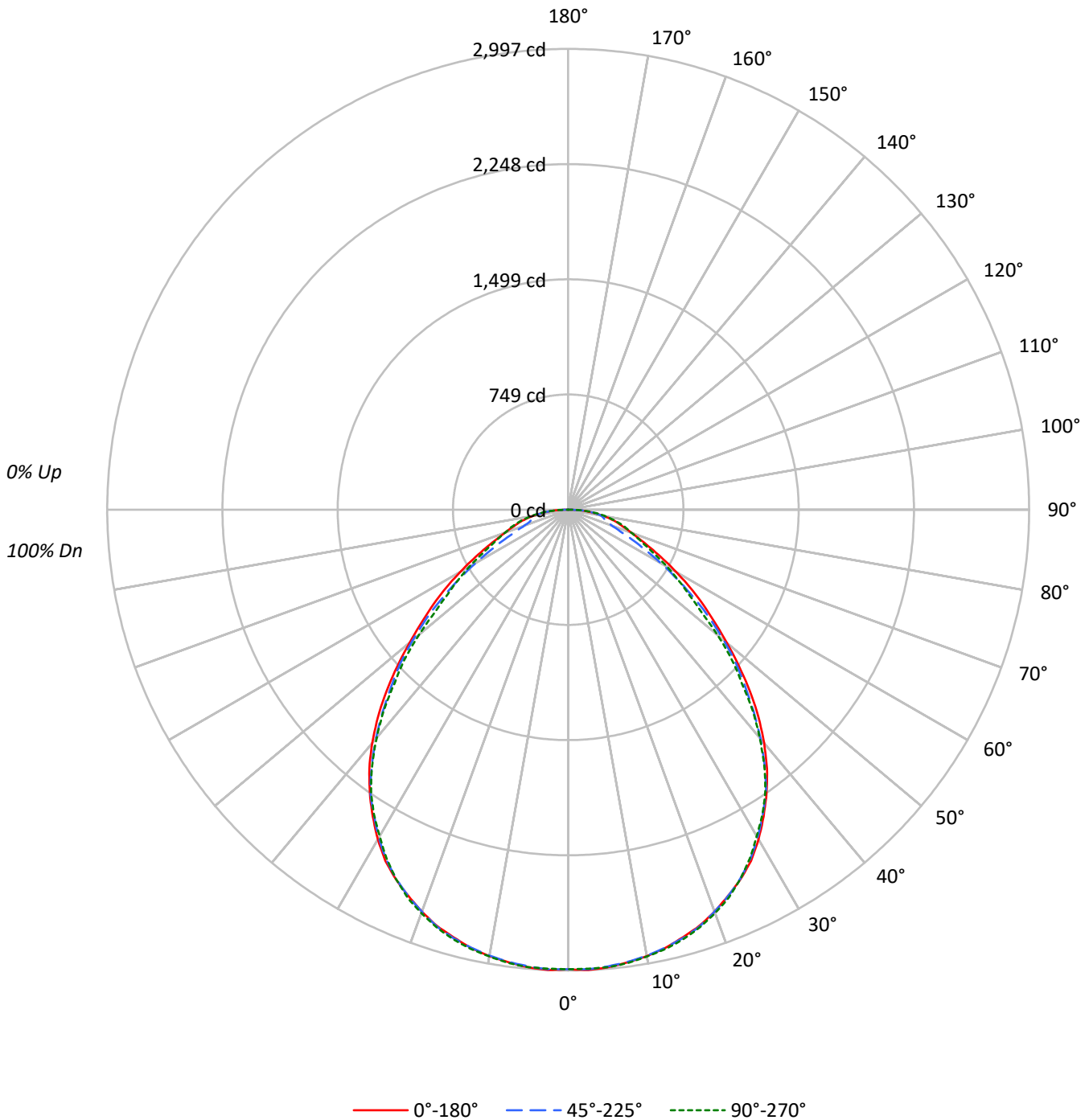
Input Watts (W): 52.173
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4021	4021	4021
5°	4035	4026	4033
10°	4029	4023	4030
15°	4010	4017	4027
20°	3983	3983	3998
25°	3938	3930	3933
30°	3846	3826	3807
35°	3694	3684	3670
40°	3480	3416	3401
45°	3183	3096	3039
50°	2814	2758	2651
55°	2503	2333	2242
60°	2179	1866	2001
65°	1882	1447	1770
70°	1717	1184	1712
75°	1731	1276	1819
80°	1802	1661	1918
85°	1877	1976	2124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.5	4.1
10°-20°	813.0	11.9
20°-30°	1217.0	17.8
30°-40°	1390.6	20.3
40°-50°	1257.2	18.4
50°-60°	904.5	13.2
60°-70°	524.4	7.7
70°-80°	311.1	4.5
80°-90°	137.8	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°	2313.4	33.8
0°-40°	3704.0	54.2
0°-60°	5865.8	85.8
0°-90°	6839.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6839.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2988	2988	2988	2988	2988	
5°	2987	2983	2981	2977	2986	284
15°	2878	2884	2884	2881	2891	813
25°	2652	2649	2647	2642	2649	1219
35°	2249	2238	2243	2215	2234	1402
45°	1673	1644	1627	1612	1597	1285
55°	1067	1047	994	969	956	954
65°	591	525	454	508	556	597
75°	333	278	245	303	350	352
85°	122	131	128	147	138	130
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2988.4	2988.4	2988.4	2988.4	2988.4
2.5°	2996.9	2986.3	2991.6	2988.4	2987.3
5°	2987.3	2983.1	2980.9	2976.7	2986.3
7.5°	2968.1	2964.9	2966.0	2967.1	2973.5
10°	2948.9	2943.6	2944.7	2946.8	2950.0
12.5°	2919.1	2915.9	2916.9	2919.1	2926.5
15°	2878.5	2883.8	2883.8	2880.6	2891.3
17.5°	2838.0	2836.9	2842.2	2832.6	2847.6
20°	2781.4	2782.5	2781.4	2782.5	2792.1
22.5°	2717.4	2722.7	2719.5	2719.5	2730.2
25°	2652.3	2649.1	2647.0	2641.7	2649.1
27.5°	2574.4	2568.0	2562.7	2552.0	2557.4
30°	2475.2	2476.3	2462.4	2452.8	2450.7
32.5°	2364.3	2364.3	2351.5	2344.0	2350.4
35°	2249.0	2238.4	2242.6	2214.9	2234.1
37.5°	2124.2	2107.1	2097.5	2087.9	2094.3
40°	1981.2	1958.8	1945.0	1925.8	1936.4
42.5°	1830.8	1803.1	1786.0	1772.1	1776.4
45°	1672.9	1644.1	1627.0	1612.1	1597.2
47.5°	1506.5	1488.3	1479.8	1460.6	1443.5
50°	1344.3	1337.9	1317.6	1301.6	1266.4
52.5°	1196.0	1190.7	1158.7	1132.0	1087.2
55°	1066.9	1046.6	994.4	968.8	955.9
57.5°	935.7	902.6	839.7	836.5	845.0
60°	809.8	769.2	693.5	710.6	743.6
62.5°	695.6	634.8	562.3	602.8	642.3
65°	591.1	524.9	454.5	507.8	555.9
67.5°	504.6	438.5	365.9	437.4	492.9
70°	436.4	369.1	300.9	383.0	435.3
72.5°	379.8	319.0	262.5	340.3	394.8
75°	332.9	278.5	245.4	303.0	349.9
77.5°	285.9	242.2	234.7	269.9	298.7
80°	232.6	212.3	214.4	236.9	247.5
82.5°	173.9	175.0	180.3	198.4	194.2
85°	121.6	131.2	128.0	147.2	137.6
87.5°	67.2	73.6	69.3	84.3	75.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)