

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: P293700

Luminaire Tested: **24GR-LD5-72-A125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293700
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-L83050-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: 6845.0 lumens
Efficiency: N/A
Efficacy: 130.5 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

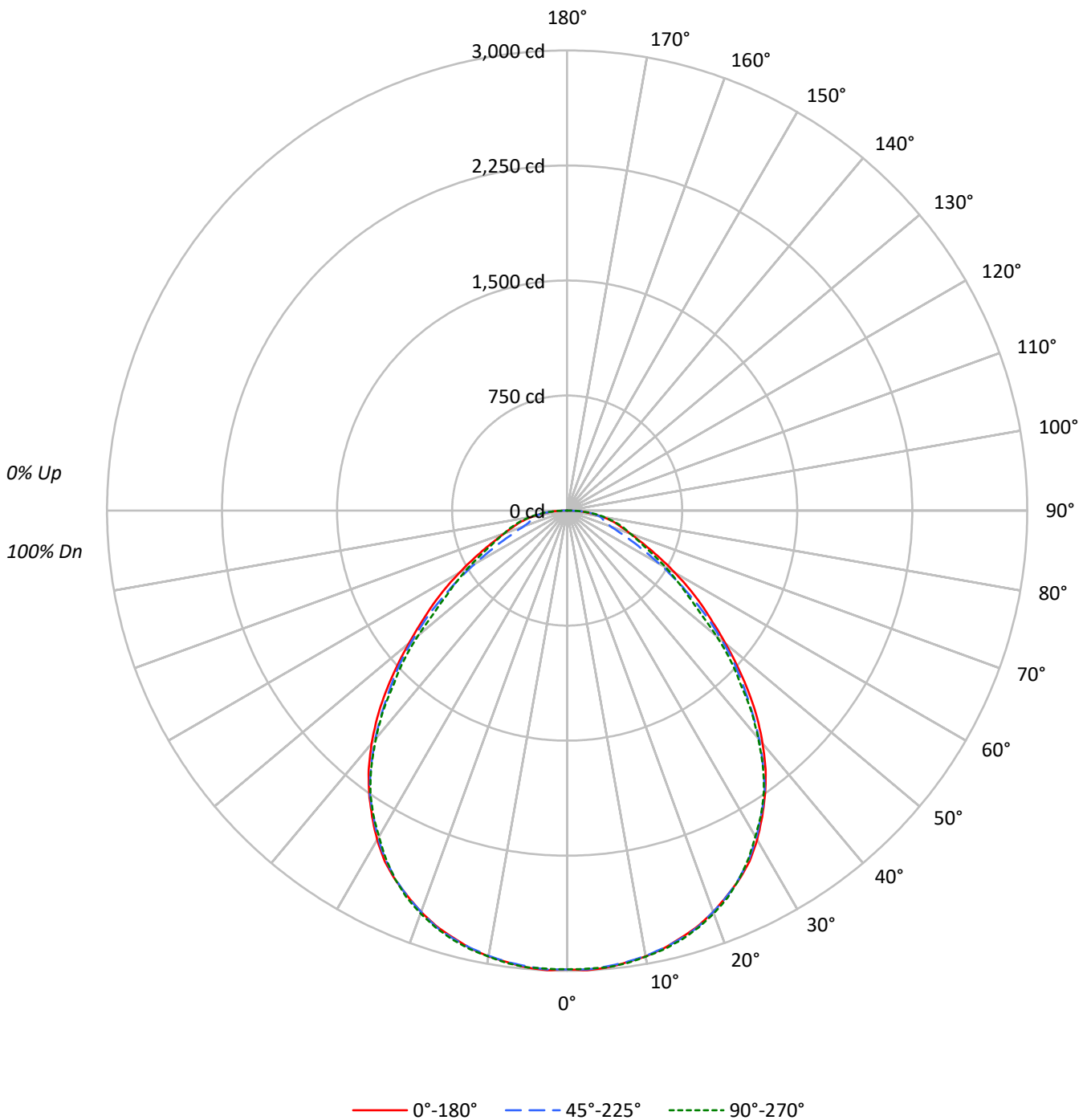
Input Watts (W): 52.452
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4024	4024	4024
5°	4038	4030	4037
10°	4032	4027	4034
15°	4013	4021	4031
20°	3986	3986	4001
25°	3941	3933	3936
30°	3849	3829	3811
35°	3697	3687	3673
40°	3483	3419	3404
45°	3186	3099	3042
50°	2816	2761	2653
55°	2505	2335	2244
60°	2181	1868	2003
65°	1883	1448	1771
70°	1718	1185	1714
75°	1732	1277	1821
80°	1804	1663	1919
85°	1879	1978	2127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.7	4.1
10°-20°	813.7	11.9
20°-30°	1218.0	17.8
30°-40°	1391.8	20.3
40°-50°	1258.4	18.4
50°-60°	905.3	13.2
60°-70°	524.8	7.7
70°-80°	311.3	4.5
80°-90°	137.9	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°	2315.5	33.8
0°-40°	3707.3	54.2
0°-60°	5871.0	85.8
0°-90°	6845.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6845.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2991	2991	2991	2991	2991	
5°	2990	2986	2984	2979	2989	284
15°	2881	2886	2886	2883	2894	813
25°	2655	2652	2649	2644	2652	1220
35°	2251	2240	2245	2217	2236	1403
45°	1674	1646	1628	1614	1599	1286
55°	1068	1048	995	970	957	955
65°	592	525	455	508	556	597
75°	333	279	246	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°	2991.0	2991.0	2991.0	2991.0	2991.0
2.5°	2999.6	2988.9	2994.2	2991.0	2990.0
5°	2990.0	2985.7	2983.6	2979.3	2988.9
7.5°	2970.7	2967.5	2968.6	2969.7	2976.1
10°	2951.5	2946.2	2947.2	2949.4	2952.6
12.5°	2921.6	2918.4	2919.5	2921.6	2929.1
15°	2881.0	2886.4	2886.4	2883.2	2893.9
17.5°	2840.5	2839.4	2844.7	2835.1	2850.1
20°	2783.9	2784.9	2783.9	2784.9	2794.5
22.5°	2719.8	2725.1	2721.9	2721.9	2732.6
25°	2654.7	2651.5	2649.3	2644.0	2651.5
27.5°	2576.7	2570.3	2565.0	2554.3	2559.6
30°	2477.4	2478.5	2464.6	2455.0	2452.8
32.5°	2366.3	2366.3	2353.5	2346.1	2352.5
35°	2251.0	2240.3	2244.6	2216.8	2236.1
37.5°	2126.1	2109.0	2099.4	2089.8	2096.2
40°	1983.0	1960.6	1946.7	1927.5	1938.1
42.5°	1832.4	1804.7	1787.6	1773.7	1778.0
45°	1674.4	1645.5	1628.5	1613.5	1598.6
47.5°	1507.8	1489.6	1481.1	1461.9	1444.8
50°	1345.5	1339.1	1318.8	1302.8	1267.5
52.5°	1197.1	1191.7	1159.7	1133.0	1088.1
55°	1067.8	1047.6	995.2	969.6	956.8
57.5°	936.5	903.4	840.4	837.2	845.7
60°	810.5	769.9	694.1	711.2	744.3
62.5°	696.2	635.4	562.8	603.3	642.8
65°	591.6	525.4	454.9	508.3	556.3
67.5°	505.1	438.9	366.3	437.8	493.3
70°	436.7	369.5	301.1	383.4	435.7
72.5°	380.2	319.3	262.7	340.6	395.1
75°	333.2	278.7	245.6	303.3	350.3
77.5°	286.2	242.4	234.9	270.2	299.0
80°	232.8	212.5	214.6	237.1	247.7
82.5°	174.1	175.1	180.5	198.6	194.3
85°	121.7	131.3	128.1	147.4	137.8
87.5°	67.3	73.7	69.4	84.4	75.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)