

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: P293701

Luminaire Tested: **24GR-LD5-72-A125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293701
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-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7244.0 lumens
Efficiency: N/A
Efficacy: 137.9 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

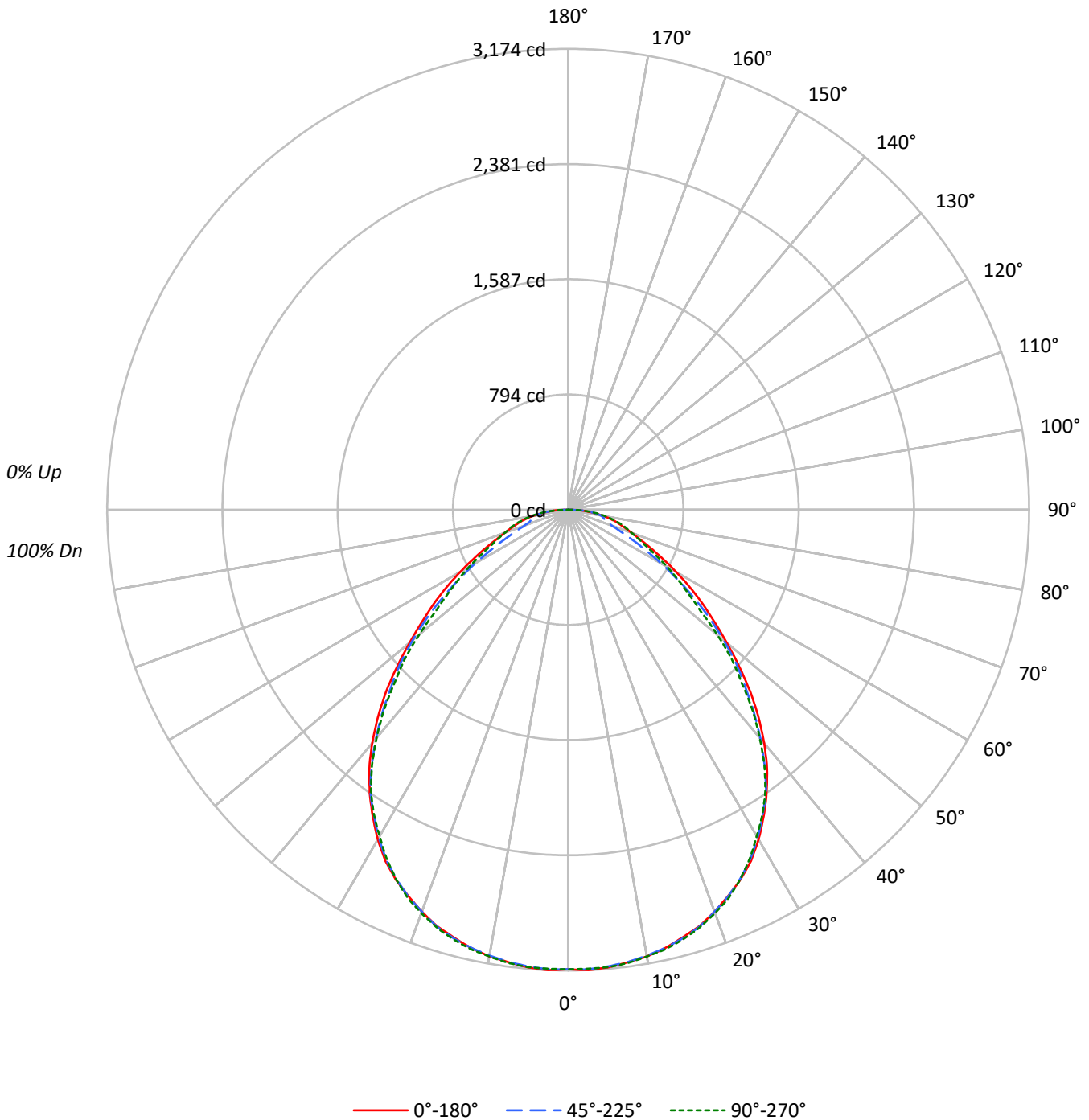
Input Watts (W): 52.545
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4259	4259	4259
5°	4274	4265	4272
10°	4268	4261	4269
15°	4247	4255	4266
20°	4218	4218	4235
25°	4171	4162	4166
30°	4073	4052	4033
35°	3913	3902	3887
40°	3686	3619	3603
45°	3372	3279	3219
50°	2981	2921	2808
55°	2651	2471	2375
60°	2308	1977	2120
65°	1993	1533	1875
70°	1818	1254	1814
75°	1833	1351	1927
80°	1909	1760	2032
85°	1988	2093	2251



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.3	4.1
10°-20°	861.2	11.9
20°-30°	1289.0	17.8
30°-40°	1473.0	20.3
40°-50°	1331.7	18.4
50°-60°	958.1	13.2
60°-70°	555.4	7.7
70°-80°	329.5	4.5
80°-90°	145.9	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°	2450.5	33.8
0°-40°	3923.4	54.2
0°-60°	6213.2	85.8
0°-90°	7244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7244.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3165	3165	3165	3165	3165	
5°	3164	3160	3158	3153	3163	301
15°	3049	3055	3055	3051	3062	861
25°	2809	2806	2804	2798	2806	1292
35°	2382	2371	2375	2346	2366	1485
45°	1772	1742	1723	1708	1692	1361
55°	1130	1109	1053	1026	1013	1011
65°	626	556	481	538	589	632
75°	353	295	260	321	371	373
85°	129	139	136	156	146	138
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3165.4	3165.4	3165.4	3165.4	3165.4
2.5°	3174.4	3163.1	3168.8	3165.4	3164.2
5°	3164.2	3159.7	3157.5	3152.9	3163.1
7.5°	3143.9	3140.5	3141.6	3142.8	3149.6
10°	3123.6	3117.9	3119.0	3121.3	3124.7
12.5°	3091.9	3088.5	3089.7	3091.9	3099.8
15°	3049.0	3054.6	3054.6	3051.2	3062.5
17.5°	3006.0	3004.9	3010.6	3000.4	3016.2
20°	2946.1	2947.3	2946.1	2947.3	2957.4
22.5°	2878.3	2884.0	2880.6	2880.6	2891.9
25°	2809.4	2806.0	2803.7	2798.1	2806.0
27.5°	2726.9	2720.1	2714.5	2703.2	2708.8
30°	2621.8	2622.9	2608.2	2598.1	2595.8
32.5°	2504.3	2504.3	2490.7	2482.8	2489.6
35°	2382.2	2370.9	2375.4	2346.1	2366.4
37.5°	2250.0	2231.9	2221.8	2211.6	2218.4
40°	2098.6	2074.8	2060.2	2039.8	2051.1
42.5°	1939.2	1909.8	1891.8	1877.1	1881.6
45°	1772.0	1741.5	1723.4	1707.6	1691.7
47.5°	1595.7	1576.5	1567.4	1547.1	1529.0
50°	1423.9	1417.1	1395.7	1378.7	1341.4
52.5°	1266.8	1261.2	1227.3	1199.0	1151.6
55°	1130.1	1108.6	1053.2	1026.1	1012.6
57.5°	991.1	956.1	889.4	886.0	895.0
60°	857.7	814.8	734.6	752.6	787.7
62.5°	736.8	672.4	595.6	638.5	680.3
65°	626.1	556.0	481.4	537.9	588.8
67.5°	534.5	464.5	387.6	463.3	522.1
70°	462.2	391.0	318.7	405.7	461.1
72.5°	402.3	337.9	278.0	360.5	418.1
75°	352.6	295.0	259.9	320.9	370.7
77.5°	302.9	256.5	248.6	285.9	316.4
80°	246.4	224.9	227.1	250.9	262.2
82.5°	184.2	185.3	191.0	210.2	205.7
85°	128.8	139.0	135.6	156.0	145.8
87.5°	71.2	78.0	73.5	89.3	80.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)