

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: P293900

Luminaire Tested: **24GR-LD5-72-A125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293900
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-L92765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5902.0 lumens
Efficiency: N/A
Efficacy: 113.3 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

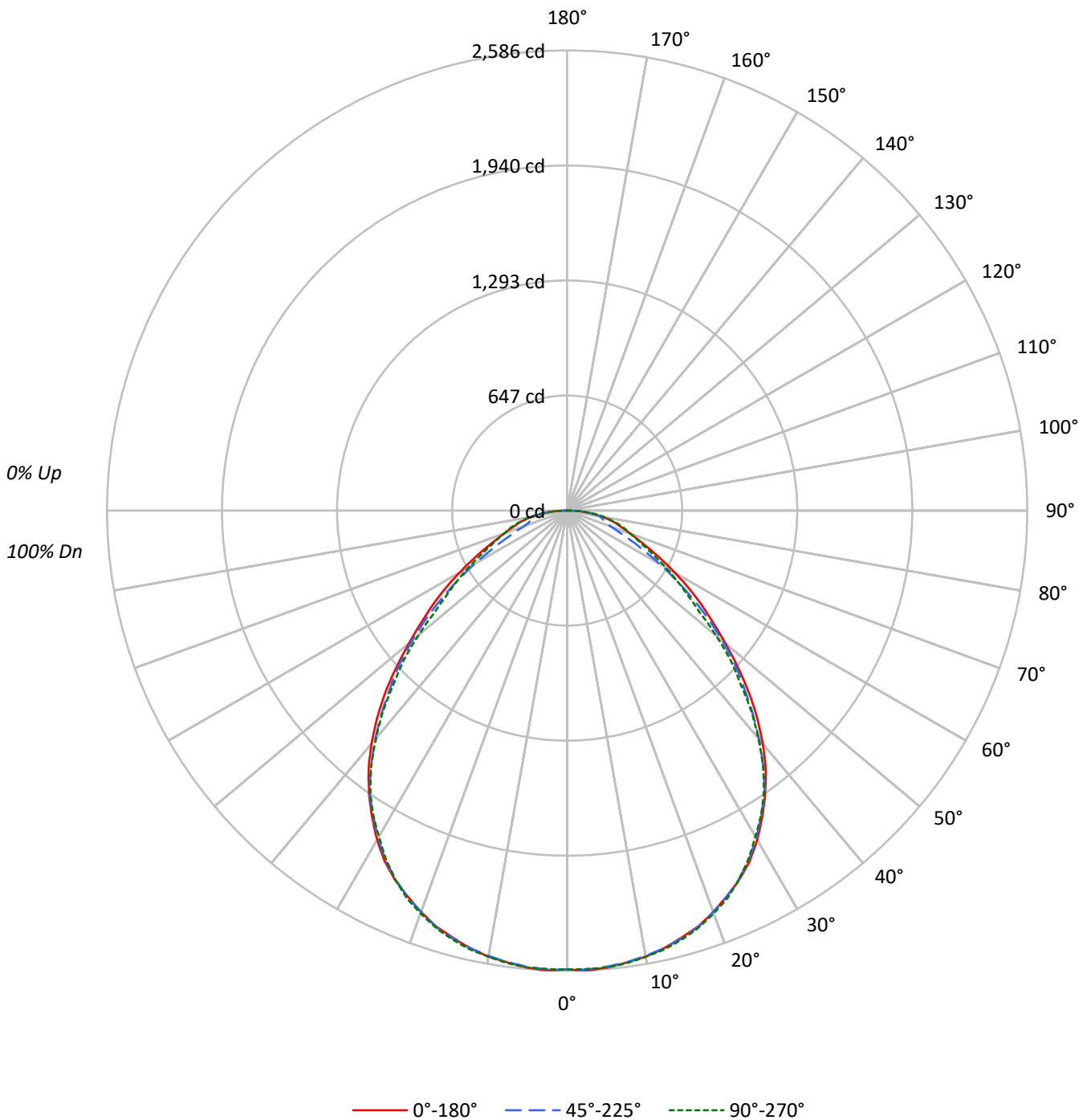
Input Watts (W): 52.08
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3470	3470	3470
5°	3482	3474	3481
10°	3477	3472	3478
15°	3460	3467	3476
20°	3437	3437	3450
25°	3398	3391	3394
30°	3319	3301	3286
35°	3188	3179	3167
40°	3003	2948	2935
45°	2747	2672	2623
50°	2428	2380	2288
55°	2160	2013	1935
60°	1880	1611	1727
65°	1624	1249	1527
70°	1482	1021	1478
75°	1494	1101	1570
80°	1555	1434	1655
85°	1621	1706	1834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.6	4.1
10°-20°	701.6	11.9
20°-30°	1050.2	17.8
30°-40°	1200.1	20.3
40°-50°	1085.0	18.4
50°-60°	780.6	13.2
60°-70°	452.5	7.7
70°-80°	268.4	4.5
80°-90°	118.9	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°	1996.5	33.8
0°-40°	3196.6	54.2
0°-60°	5062.1	85.8
0°-90°	5902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5902.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2579	2579	2579	2579	2579	
5°	2578	2574	2572	2569	2577	245
15°	2484	2489	2489	2486	2495	701
25°	2289	2286	2284	2280	2286	1052
35°	1941	1932	1935	1911	1928	1210
45°	1444	1419	1404	1391	1378	1109
55°	921	903	858	836	825	824
65°	510	453	392	438	480	515
75°	287	240	212	262	302	304
85°	105	113	110	127	119	113
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2579.0	2579.0	2579.0	2579.0	2579.0
2.5°	2586.3	2577.1	2581.7	2579.0	2578.0
5°	2578.0	2574.4	2572.5	2568.8	2577.1
7.5°	2561.5	2558.7	2559.6	2560.6	2566.1
10°	2544.9	2540.3	2541.2	2543.1	2545.8
12.5°	2519.1	2516.4	2517.3	2519.1	2525.6
15°	2484.1	2488.7	2488.7	2486.0	2495.2
17.5°	2449.1	2448.2	2452.8	2444.5	2457.4
20°	2400.3	2401.3	2400.3	2401.3	2409.6
22.5°	2345.1	2349.7	2346.9	2346.9	2356.2
25°	2288.9	2286.2	2284.3	2279.7	2286.2
27.5°	2221.7	2216.2	2211.6	2202.4	2207.0
30°	2136.1	2137.0	2125.0	2116.8	2114.9
32.5°	2040.3	2040.3	2029.3	2022.8	2028.4
35°	1940.9	1931.7	1935.4	1911.4	1928.0
37.5°	1833.2	1818.4	1810.2	1801.9	1807.4
40°	1709.8	1690.5	1678.5	1661.9	1671.1
42.5°	1580.0	1556.0	1541.3	1529.3	1533.0
45°	1443.7	1418.8	1404.1	1391.2	1378.3
47.5°	1300.1	1284.4	1277.1	1260.5	1245.7
50°	1160.1	1154.6	1137.1	1123.3	1092.9
52.5°	1032.1	1027.5	999.9	976.9	938.2
55°	920.7	903.2	858.1	836.0	825.0
57.5°	807.5	778.9	724.6	721.9	729.2
60°	698.8	663.8	598.5	613.2	641.7
62.5°	600.3	547.8	485.2	520.2	554.3
65°	510.1	453.0	392.2	438.3	479.7
67.5°	435.5	378.4	315.8	377.5	425.4
70°	376.6	318.6	259.6	330.5	375.7
72.5°	327.8	275.3	226.5	293.7	340.7
75°	287.3	240.3	211.8	261.5	302.0
77.5°	246.8	209.0	202.6	232.9	257.8
80°	200.7	183.2	185.1	204.4	213.6
82.5°	150.1	151.0	155.6	171.3	167.6
85°	105.0	113.2	110.5	127.1	118.8
87.5°	58.0	63.5	59.8	72.7	65.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)