

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: P293906

Luminaire Tested: **24GR-LD5-72-A125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293906
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-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6829.0 lumens
Efficiency: N/A
Efficacy: 126.2 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

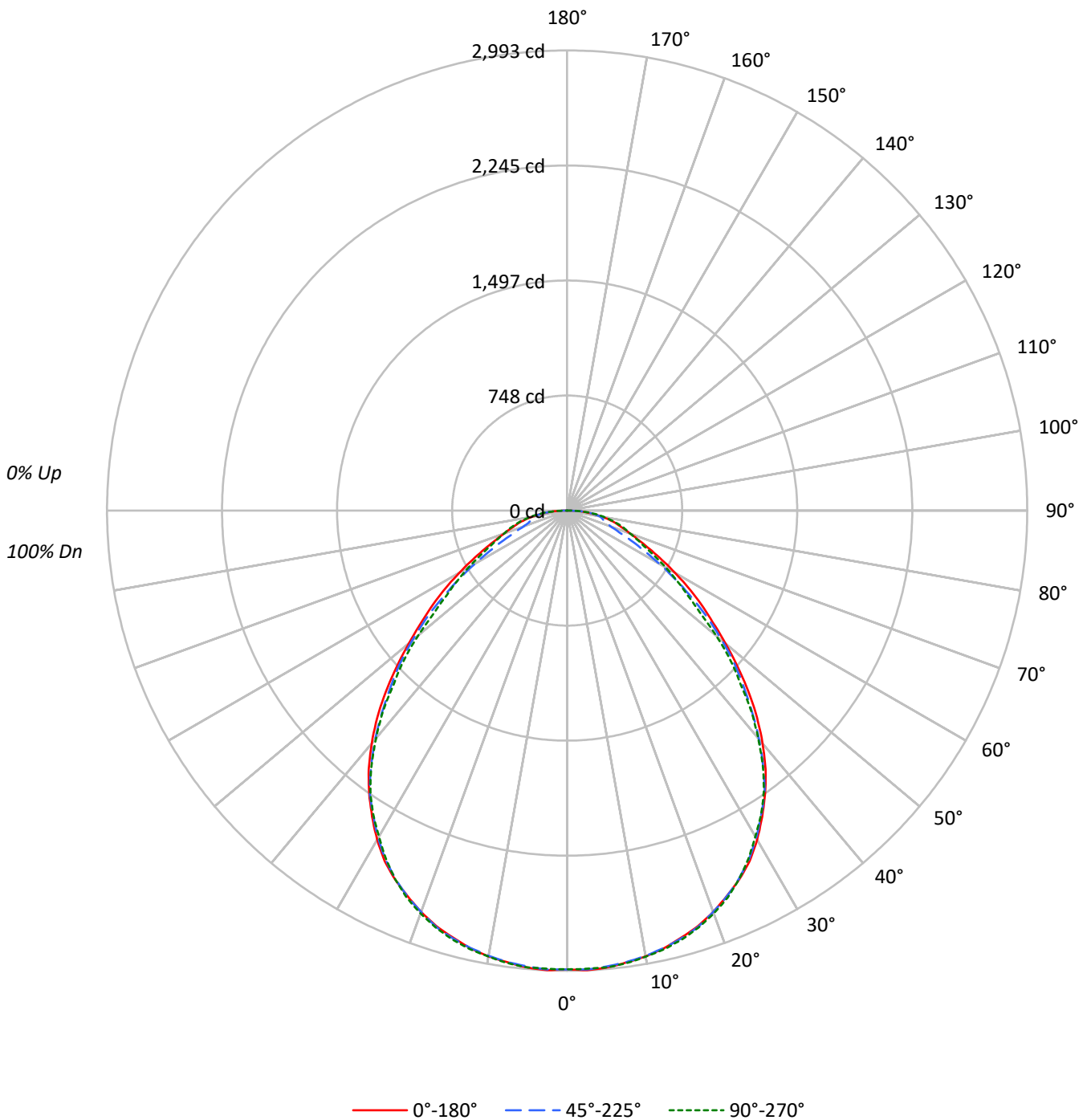
Input Watts (W): 54.126
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4015	4015	4015
5°	4029	4020	4027
10°	4023	4017	4025
15°	4004	4011	4022
20°	3977	3977	3992
25°	3932	3924	3927
30°	3840	3820	3802
35°	3689	3678	3664
40°	3475	3411	3396
45°	3179	3091	3035
50°	2810	2754	2647
55°	2499	2329	2239
60°	2176	1864	1998
65°	1879	1445	1767
70°	1714	1182	1710
75°	1728	1274	1816
80°	1799	1659	1915
85°	1874	1973	2121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.1	4.1
10°-20°	811.8	11.9
20°-30°	1215.2	17.8
30°-40°	1388.6	20.3
40°-50°	1255.4	18.4
50°-60°	903.2	13.2
60°-70°	523.6	7.7
70°-80°	310.6	4.5
80°-90°	137.6	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°	2310.1	33.8
0°-40°	3698.7	54.2
0°-60°	5857.2	85.8
0°-90°	6829.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6829.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2984	2984	2984	2984	2984	
5°	2983	2979	2977	2972	2982	283
15°	2874	2880	2880	2876	2887	811
25°	2648	2645	2643	2638	2645	1218
35°	2246	2235	2239	2212	2231	1400
45°	1670	1642	1625	1610	1595	1283
55°	1065	1045	993	967	955	953
65°	590	524	454	507	555	596
75°	332	278	245	303	349	351
85°	121	131	128	147	137	130
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2984.0	2984.0	2984.0	2984.0	2984.0
2.5°	2992.6	2981.9	2987.2	2984.0	2983.0
5°	2983.0	2978.7	2976.6	2972.3	2981.9
7.5°	2963.8	2960.6	2961.7	2962.7	2969.1
10°	2944.6	2939.3	2940.4	2942.5	2945.7
12.5°	2914.8	2911.6	2912.7	2914.8	2922.2
15°	2874.3	2879.6	2879.6	2876.4	2887.1
17.5°	2833.8	2832.8	2838.1	2828.5	2843.4
20°	2777.4	2778.4	2777.4	2778.4	2788.0
22.5°	2713.4	2718.8	2715.6	2715.6	2726.2
25°	2648.5	2645.3	2643.1	2637.8	2645.3
27.5°	2570.7	2564.3	2559.0	2548.3	2553.6
30°	2471.6	2472.7	2458.8	2449.2	2447.1
32.5°	2360.8	2360.8	2348.0	2340.6	2347.0
35°	2245.8	2235.1	2239.4	2211.7	2230.8
37.5°	2121.1	2104.1	2094.5	2084.9	2091.3
40°	1978.3	1956.0	1942.1	1923.0	1933.6
42.5°	1828.1	1800.4	1783.4	1769.5	1773.8
45°	1670.5	1641.7	1624.7	1609.7	1594.8
47.5°	1504.3	1486.2	1477.6	1458.5	1441.4
50°	1342.3	1335.9	1315.7	1299.7	1264.6
52.5°	1194.3	1188.9	1157.0	1130.3	1085.6
55°	1065.3	1045.1	992.9	967.3	954.6
57.5°	934.3	901.3	838.4	835.2	843.8
60°	808.6	768.1	692.5	709.5	742.5
62.5°	694.6	633.9	561.4	601.9	641.3
65°	590.2	524.2	453.8	507.1	555.0
67.5°	503.9	437.9	365.4	436.8	492.2
70°	435.7	368.6	300.4	382.5	434.7
72.5°	379.3	318.5	262.1	339.8	394.2
75°	332.4	278.1	245.0	302.6	349.4
77.5°	285.5	241.8	234.4	269.5	298.3
80°	232.2	212.0	214.1	236.5	247.2
82.5°	173.7	174.7	180.0	198.2	193.9
85°	121.4	131.0	127.8	147.0	137.4
87.5°	67.1	73.5	69.2	84.2	75.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)