

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: P292944

Luminaire Tested: **24GR-LD5-72-F1-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-72-F1-UNV-L83050-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6832.0 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

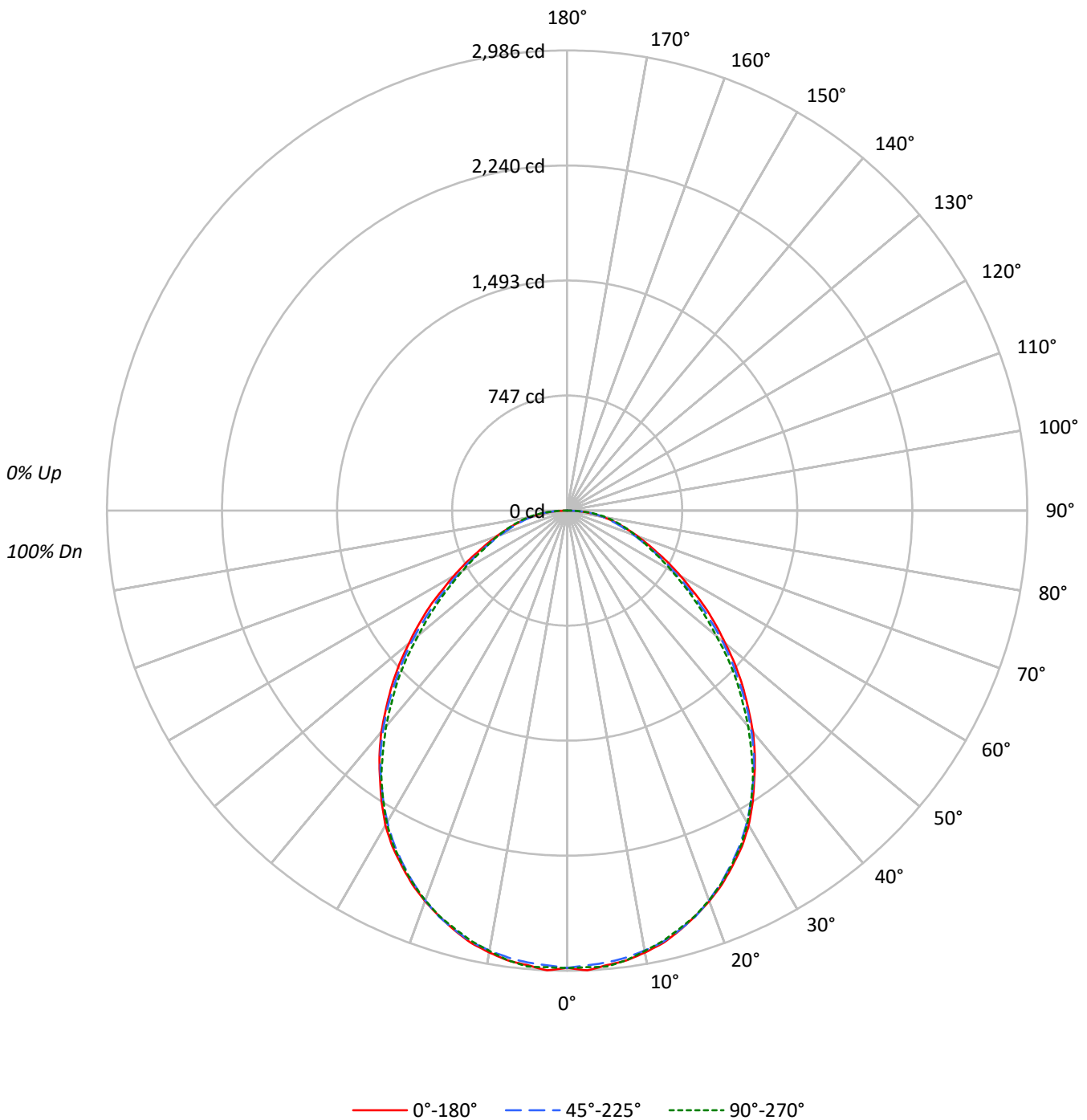
Input Watts (W): 52.452
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292944

CATALOG NUMBER: 24GR-LD5-72-F1-UNV-L83050-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P292944

CATALOG NUMBER: 24GR-LD5-72-F1-UNV-L83050-W2A1-U-3000K

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31					31			
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3993	3993	3993
5°	3999	3976	4010
10°	3978	3960	3964
15°	3928	3924	3914
20°	3862	3854	3854
25°	3772	3751	3759
30°	3663	3625	3636
35°	3479	3463	3453
40°	3294	3265	3208
45°	3062	3009	2950
50°	2805	2743	2640
55°	2562	2446	2363
60°	2283	2173	2116
65°	2055	1947	1920
70°	1907	1791	1863
75°	1824	1744	1890
80°	1823	1823	2020
85°	1893	1914	2132



TEST NUMBER: P292944

CATALOG NUMBER: 24GR-LD5-72-F1-UNV-L83050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.3	4.1
10°-20°	793.1	11.6
20°-30°	1164.0	17.0
30°-40°	1316.0	19.3
40°-50°	1216.3	17.8
50°-60°	937.1	13.7
60°-70°	620.5	9.1
70°-80°	369.4	5.4
80°-90°	135.3	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°	2237.4	32.7
0°-40°	3553.4	52.0
0°-60°	5706.8	83.5
0°-90°	6832.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6832.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2968	2968	2968	2968	2968	
5°	2961	2961	2944	2945	2969	281
15°	2820	2814	2817	2816	2810	795
25°	2541	2534	2527	2524	2532	1170
35°	2118	2115	2108	2098	2102	1325
45°	1609	1598	1581	1553	1550	1240
55°	1092	1070	1043	1015	1008	974
65°	645	636	612	606	603	647
75°	351	342	335	351	364	374
85°	123	116	124	137	138	130
90°	0	0	0	0	0	



TEST NUMBER: P292944

CATALOG NUMBER: 24GR-LD5-72-F1-UNV-L83050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2967.7	2967.7	2967.7	2967.7	2967.7
2.5°	2986.0	2970.5	2953.6	2953.6	2966.2
5°	2960.6	2960.6	2943.7	2945.1	2969.1
7.5°	2945.1	2936.7	2925.4	2925.4	2943.7
10°	2911.3	2904.2	2898.6	2895.8	2901.4
12.5°	2874.7	2863.4	2867.6	2863.4	2862.0
15°	2819.7	2814.1	2816.9	2815.5	2809.8
17.5°	2760.5	2757.7	2763.3	2753.5	2757.7
20°	2697.1	2688.6	2691.5	2685.8	2691.5
22.5°	2625.2	2619.6	2612.6	2605.5	2616.8
25°	2540.7	2533.6	2526.6	2523.8	2532.2
27.5°	2456.1	2444.9	2435.0	2432.2	2444.9
30°	2357.5	2344.8	2333.5	2330.7	2340.6
32.5°	2240.5	2237.7	2223.6	2218.0	2222.2
35°	2117.9	2115.1	2108.1	2098.2	2102.4
37.5°	2001.0	1999.6	1989.7	1972.8	1961.5
40°	1875.6	1865.7	1858.7	1834.7	1826.3
42.5°	1737.5	1734.7	1722.0	1695.2	1685.3
45°	1609.2	1598.0	1581.1	1552.9	1550.1
47.5°	1476.8	1461.3	1445.8	1410.6	1409.1
50°	1340.1	1328.8	1310.5	1275.3	1261.2
52.5°	1213.3	1197.8	1172.4	1138.6	1131.5
55°	1092.1	1069.5	1042.8	1014.6	1007.5
57.5°	962.4	952.6	920.2	897.6	889.2
60°	848.3	839.9	807.4	786.3	786.3
62.5°	745.4	732.8	704.6	690.5	690.5
65°	645.4	635.5	611.6	605.9	603.1
67.5°	559.4	546.7	529.8	528.4	535.5
70°	484.7	469.2	455.2	469.2	473.5
72.5°	414.3	404.4	391.7	410.1	418.5
75°	350.9	342.4	335.4	350.9	363.6
77.5°	293.1	284.6	284.6	301.6	312.8
80°	235.3	229.7	235.3	249.4	260.7
82.5°	180.4	176.1	183.2	197.3	204.3
85°	122.6	115.5	124.0	136.7	138.1
87.5°	57.8	56.4	62.0	70.5	69.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)