

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: P293512

Luminaire Tested: **24GR-LD5-64-A-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-A-UNV-L82765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5941.0 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

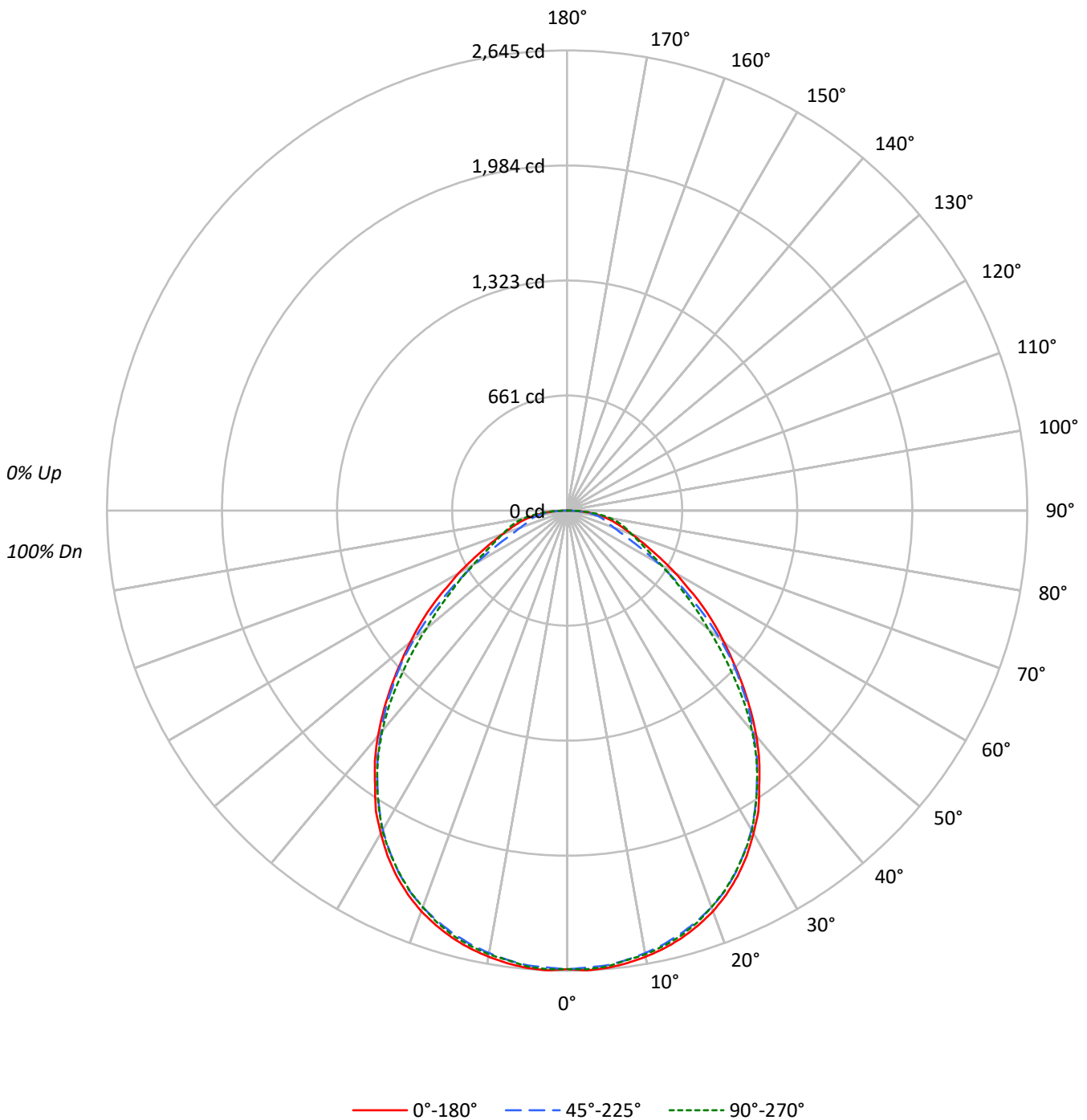
Input Watts (W): 45.942
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63					63			
4	86	74	66	60	83	73	65	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	46	72	60	52	46	58	51	46	57	50	45	55	49	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°	3547	3547	3547
5°	3564	3544	3553
10°	3557	3529	3539
15°	3544	3508	3523
20°	3510	3475	3473
25°	3442	3405	3402
30°	3328	3294	3301
35°	3161	3125	3130
40°	2973	2921	2903
45°	2724	2688	2581
50°	2463	2396	2215
55°	2211	2013	1910
60°	1936	1620	1679
65°	1689	1274	1546
70°	1545	1112	1545
75°	1546	1183	1704
80°	1678	1394	1942
85°	1842	1573	2083



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.6	4.2
10°-20°	712.4	12.0
20°-30°	1056.3	17.8
30°-40°	1191.6	20.1
40°-50°	1079.2	18.2
50°-60°	778.6	13.1
60°-70°	464.9	7.8
70°-80°	287.3	4.8
80°-90°	121.0	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°	2018.3	34.0
0°-40°	3209.9	54.0
0°-60°	5067.7	85.3
0°-90°	5941.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5941.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2636	2636	2636	2636	2636	
5°	2639	2635	2624	2621	2630	251
15°	2544	2529	2518	2519	2530	717
25°	2318	2306	2294	2285	2292	1065
35°	1925	1922	1903	1904	1905	1204
45°	1432	1423	1412	1378	1356	1103
55°	943	913	858	816	814	841
65°	530	467	400	454	486	534
75°	297	258	228	284	328	318
85°	119	105	102	133	135	125
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2636.0	2636.0	2636.0	2636.0	2636.0
2.5°	2645.1	2637.8	2628.6	2634.1	2638.7
5°	2638.7	2635.0	2624.0	2621.3	2630.4
7.5°	2624.9	2615.8	2605.7	2610.3	2606.6
10°	2603.8	2595.6	2582.7	2583.6	2590.1
12.5°	2578.1	2568.0	2554.3	2557.9	2563.4
15°	2544.2	2528.6	2518.5	2519.4	2529.5
17.5°	2501.0	2489.1	2476.3	2479.0	2483.6
20°	2451.5	2445.0	2426.7	2421.2	2425.8
22.5°	2389.1	2377.1	2367.0	2364.3	2365.2
25°	2318.4	2305.5	2293.6	2285.3	2291.8
27.5°	2235.8	2224.8	2209.2	2206.4	2211.9
30°	2142.2	2133.9	2120.1	2116.5	2124.7
32.5°	2046.7	2033.0	2013.7	2013.7	2015.5
35°	1924.6	1921.9	1902.6	1903.5	1905.4
37.5°	1814.5	1801.7	1790.6	1779.6	1785.1
40°	1692.4	1677.8	1663.1	1655.7	1653.0
42.5°	1561.2	1550.2	1543.8	1517.1	1510.7
45°	1431.8	1422.6	1412.5	1377.6	1356.5
47.5°	1299.6	1297.8	1289.5	1228.0	1206.9
50°	1176.6	1173.9	1144.5	1079.3	1058.2
52.5°	1060.1	1041.7	1003.2	938.9	935.2
55°	942.6	913.2	858.2	815.9	814.1
57.5°	818.7	783.8	727.8	704.9	716.8
60°	719.6	666.3	602.1	604.8	624.1
62.5°	616.8	557.1	493.8	521.3	544.3
65°	530.5	467.2	400.2	454.3	485.5
67.5°	455.2	396.5	332.2	404.8	435.0
70°	392.8	345.1	282.7	358.9	392.8
72.5°	343.3	299.2	250.6	322.2	361.6
75°	297.4	257.9	227.6	283.6	327.7
77.5°	257.9	219.4	205.6	250.6	293.7
80°	216.6	181.7	179.9	218.4	250.6
82.5°	168.9	145.0	145.0	182.6	201.9
85°	119.3	104.6	101.9	133.1	134.9
87.5°	61.5	58.7	53.2	69.8	69.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)