

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: P293142

Luminaire Tested: **24GR-LD5-64-F1-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293142
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-LD5-64-F1-UNV-L92765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6073.0 lumens
Efficiency: N/A
Efficacy: 126.3 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

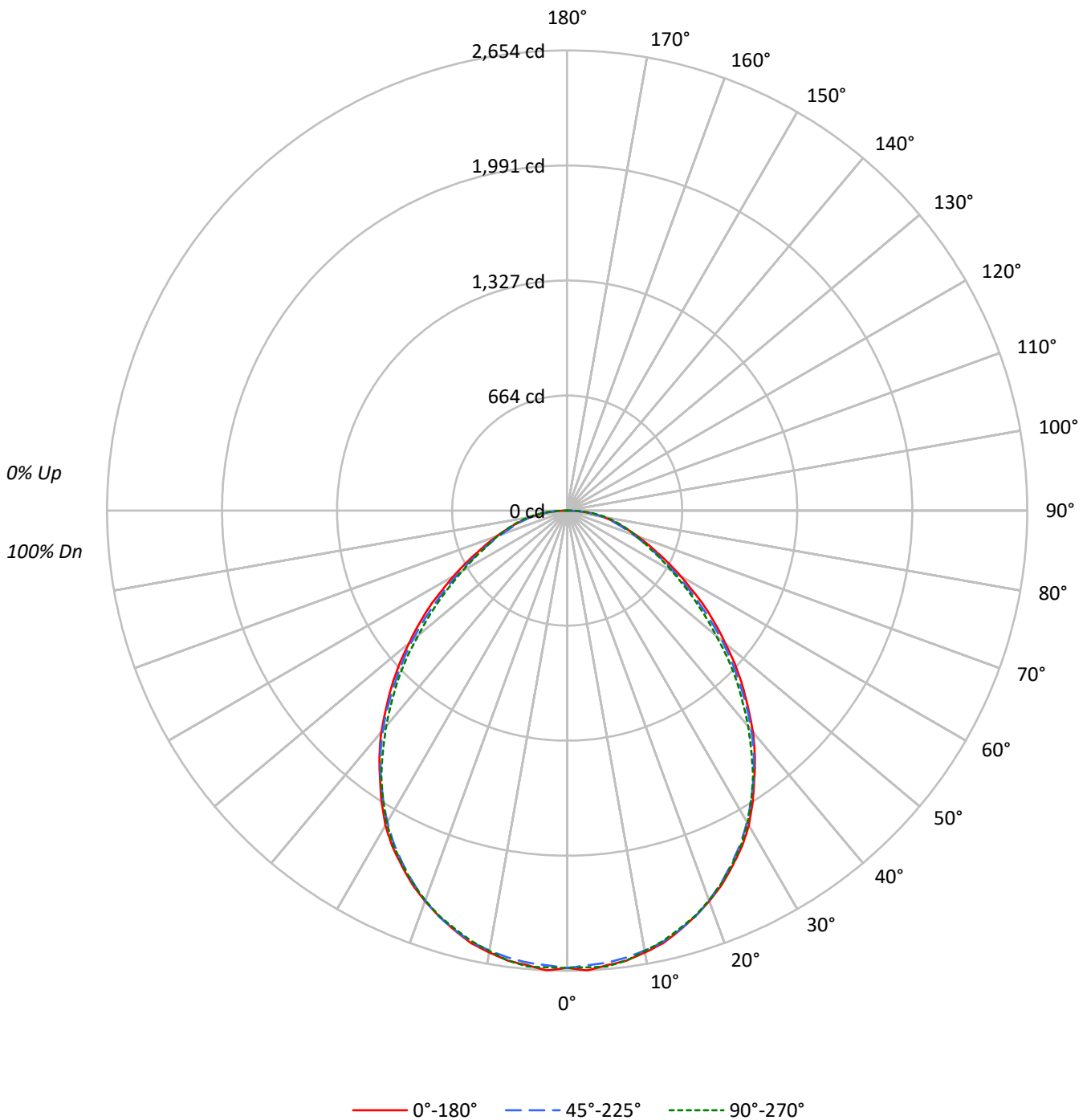
Input Watts (W): 48.081
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3549	3549	3549
5°	3554	3534	3565
10°	3536	3520	3524
15°	3491	3488	3479
20°	3433	3426	3426
25°	3353	3334	3342
30°	3256	3223	3232
35°	3092	3078	3070
40°	2928	2902	2851
45°	2722	2674	2622
50°	2493	2438	2347
55°	2277	2174	2101
60°	2029	1931	1881
65°	1826	1731	1707
70°	1695	1592	1656
75°	1621	1550	1680
80°	1621	1621	1795
85°	1683	1701	1896



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.1	4.1
10°-20°	705.0	11.6
20°-30°	1034.7	17.0
30°-40°	1169.8	19.3
40°-50°	1081.1	17.8
50°-60°	833.0	13.7
60°-70°	551.6	9.1
70°-80°	328.4	5.4
80°-90°	120.3	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°	1988.9	32.7
0°-40°	3158.7	52.0
0°-60°	5072.8	83.5
0°-90°	6073.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6073.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2638	2638	2638	2638	2638	
5°	2632	2632	2617	2618	2639	250
15°	2506	2501	2504	2503	2498	706
25°	2258	2252	2246	2243	2251	1040
35°	1883	1880	1874	1865	1869	1178
45°	1430	1420	1405	1380	1378	1102
55°	971	951	927	902	896	866
65°	574	565	544	539	536	575
75°	312	304	298	312	323	333
85°	109	103	110	122	123	116
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2638.0	2638.0	2638.0	2638.0	2638.0
2.5°	2654.3	2640.5	2625.4	2625.4	2636.7
5°	2631.7	2631.7	2616.7	2617.9	2639.2
7.5°	2617.9	2610.4	2600.4	2600.4	2616.7
10°	2587.9	2581.6	2576.6	2574.1	2579.1
12.5°	2555.3	2545.3	2549.0	2545.3	2544.0
15°	2506.4	2501.4	2503.9	2502.7	2497.7
17.5°	2453.8	2451.3	2456.3	2447.6	2451.3
20°	2397.5	2390.0	2392.5	2387.4	2392.5
22.5°	2333.6	2328.6	2322.3	2316.1	2326.1
25°	2258.4	2252.2	2245.9	2243.4	2250.9
27.5°	2183.3	2173.3	2164.5	2162.0	2173.3
30°	2095.6	2084.3	2074.3	2071.8	2080.6
32.5°	1991.6	1989.1	1976.6	1971.6	1975.3
35°	1882.7	1880.1	1873.9	1865.1	1868.9
37.5°	1778.7	1777.4	1768.7	1753.6	1743.6
40°	1667.2	1658.4	1652.2	1630.9	1623.4
42.5°	1544.5	1541.9	1530.7	1506.9	1498.1
45°	1430.5	1420.4	1405.4	1380.4	1377.9
47.5°	1312.7	1298.9	1285.2	1253.8	1252.6
50°	1191.2	1181.2	1164.9	1133.6	1121.1
52.5°	1078.5	1064.7	1042.2	1012.1	1005.8
55°	970.8	950.7	926.9	901.9	895.6
57.5°	855.5	846.8	817.9	797.9	790.4
60°	754.1	746.5	717.7	698.9	698.9
62.5°	662.6	651.3	626.3	613.8	613.8
65°	573.7	564.9	543.6	538.6	536.1
67.5°	497.3	486.0	471.0	469.7	476.0
70°	430.9	417.1	404.6	417.1	420.9
72.5°	368.3	359.5	348.2	364.5	372.0
75°	311.9	304.4	298.1	311.9	323.2
77.5°	260.5	253.0	253.0	268.1	278.1
80°	209.2	204.2	209.2	221.7	231.7
82.5°	160.3	156.6	162.8	175.4	181.6
85°	109.0	102.7	110.2	121.5	122.8
87.5°	51.4	50.1	55.1	62.6	61.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)