

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: P293648

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293648
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-LD5-72-A-UNV-L92765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5960.0 lumens
Efficiency: N/A
Efficacy: 114.4 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

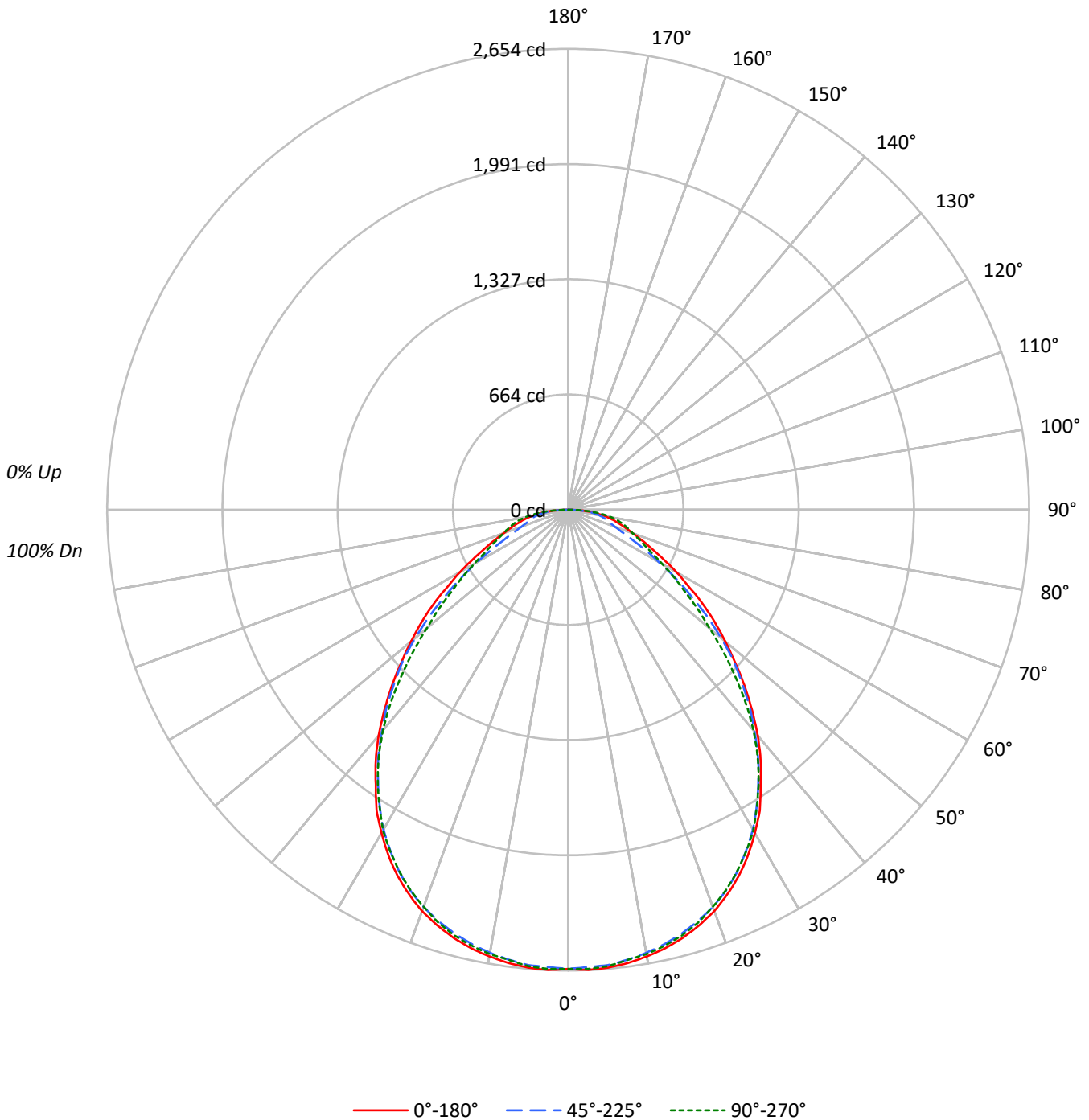
Input Watts (W): 52.08
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3558	3558	3558
5°	3575	3555	3564
10°	3569	3540	3550
15°	3555	3519	3535
20°	3521	3486	3484
25°	3453	3416	3413
30°	3339	3304	3312
35°	3171	3135	3140
40°	2982	2930	2913
45°	2733	2696	2590
50°	2471	2403	2222
55°	2218	2019	1916
60°	1943	1625	1685
65°	1694	1278	1551
70°	1550	1116	1550
75°	1551	1187	1709
80°	1684	1399	1948
85°	1848	1578	2089



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.4	4.2
10°-20°	714.6	12.0
20°-30°	1059.7	17.8
30°-40°	1195.4	20.1
40°-50°	1082.7	18.2
50°-60°	781.1	13.1
60°-70°	466.4	7.8
70°-80°	288.3	4.8
80°-90°	121.4	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°	2024.7	34.0
0°-40°	3220.1	54.0
0°-60°	5083.9	85.3
0°-90°	5960.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5960.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2644	2644	2644	2644	2644	
5°	2647	2644	2632	2630	2639	252
15°	2552	2537	2526	2527	2538	719
25°	2326	2313	2301	2293	2299	1068
35°	1931	1928	1909	1910	1912	1208
45°	1436	1427	1417	1382	1361	1107
55°	946	916	861	818	817	844
65°	532	469	401	456	487	535
75°	298	259	228	284	329	319
85°	120	105	102	134	135	125
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2644.4	2644.4	2644.4	2644.4	2644.4
2.5°	2653.6	2646.2	2637.0	2642.5	2647.1
5°	2647.1	2643.5	2632.4	2629.7	2638.9
7.5°	2633.3	2624.1	2614.0	2618.6	2614.9
10°	2612.2	2603.9	2591.0	2591.9	2598.3
12.5°	2586.4	2576.2	2562.4	2566.1	2571.6
15°	2552.3	2536.7	2526.5	2527.4	2537.6
17.5°	2509.0	2497.1	2484.2	2486.9	2491.5
20°	2459.3	2452.9	2434.5	2428.9	2433.5
22.5°	2396.7	2384.7	2374.6	2371.8	2372.8
25°	2325.8	2312.9	2300.9	2292.7	2299.1
27.5°	2242.9	2231.9	2216.2	2213.5	2219.0
30°	2149.0	2140.7	2126.9	2123.2	2131.5
32.5°	2053.3	2039.5	2020.1	2020.1	2022.0
35°	1930.8	1928.0	1908.7	1909.6	1911.5
37.5°	1820.3	1807.4	1796.4	1785.3	1790.9
40°	1697.9	1683.1	1668.4	1661.0	1658.3
42.5°	1566.2	1555.1	1548.7	1522.0	1515.5
45°	1436.4	1427.2	1417.0	1382.0	1360.9
47.5°	1303.8	1301.9	1293.6	1232.0	1210.8
50°	1180.4	1177.6	1148.2	1082.8	1061.6
52.5°	1063.5	1045.0	1006.4	941.9	938.2
55°	945.6	916.1	860.9	818.5	816.7
57.5°	821.3	786.3	730.2	707.1	719.1
60°	721.9	668.5	604.0	606.8	626.1
62.5°	618.7	558.9	495.4	523.0	546.0
65°	532.2	468.7	401.4	455.8	487.1
67.5°	456.7	397.8	333.3	406.0	436.4
70°	394.1	346.2	283.6	360.0	394.1
72.5°	344.4	300.2	251.4	323.2	362.8
75°	298.3	258.7	228.3	284.5	328.7
77.5°	258.7	220.1	206.2	251.4	294.6
80°	217.3	182.3	180.5	219.1	251.4
82.5°	169.4	145.5	145.5	183.2	202.6
85°	119.7	105.0	102.2	133.5	135.3
87.5°	61.7	58.9	53.4	70.0	70.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)