

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: P293649

Luminaire Tested: **24GR-LD5-72-A-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293649
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-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6258.0 lumens
Efficiency: N/A
Efficacy: 118.9 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

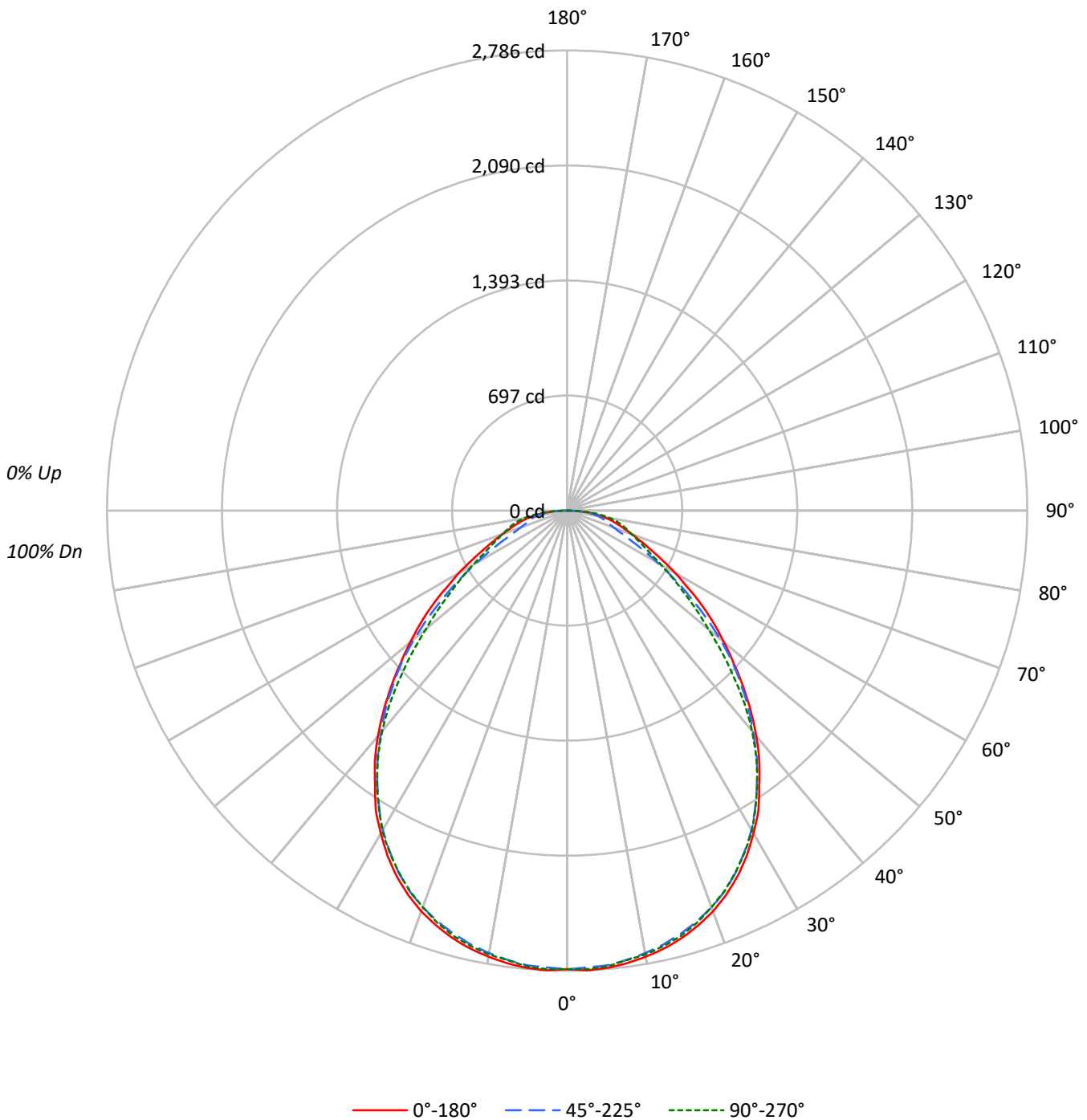
Input Watts (W): 52.638
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3736	3736	3736
5°	3754	3733	3742
10°	3747	3717	3728
15°	3733	3695	3712
20°	3697	3660	3659
25°	3626	3587	3584
30°	3506	3470	3477
35°	3330	3292	3297
40°	3131	3077	3058
45°	2870	2831	2719
50°	2594	2524	2333
55°	2329	2120	2012
60°	2040	1707	1769
65°	1779	1342	1628
70°	1628	1172	1628
75°	1628	1247	1794
80°	1768	1468	2045
85°	1941	1656	2194



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.9	4.2
10°-20°	750.4	12.0
20°-30°	1112.6	17.8
30°-40°	1255.2	20.1
40°-50°	1136.8	18.2
50°-60°	820.2	13.1
60°-70°	489.7	7.8
70°-80°	302.7	4.8
80°-90°	127.5	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°	2125.9	34.0
0°-40°	3381.1	54.0
0°-60°	5338.1	85.3
0°-90°	6258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6258.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2777	2777	2777	2777	2777	
5°	2780	2776	2764	2761	2771	264
15°	2680	2664	2653	2654	2664	755
25°	2442	2429	2416	2407	2414	1122
35°	2027	2024	2004	2005	2007	1268
45°	1508	1498	1488	1451	1429	1162
55°	993	962	904	860	858	886
65°	559	492	422	479	511	562
75°	313	272	240	299	345	335
85°	126	110	107	140	142	131
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2776.6	2776.6	2776.6	2776.6	2776.6
2.5°	2786.3	2778.5	2768.9	2774.7	2779.5
5°	2779.5	2775.6	2764.0	2761.1	2770.8
7.5°	2765.0	2755.3	2744.7	2749.5	2745.7
10°	2742.8	2734.1	2720.5	2721.5	2728.3
12.5°	2715.7	2705.1	2690.6	2694.4	2700.2
15°	2679.9	2663.5	2652.9	2653.8	2664.5
17.5°	2634.5	2621.9	2608.4	2611.3	2616.1
20°	2582.3	2575.5	2556.2	2550.4	2555.2
22.5°	2516.5	2504.0	2493.3	2490.4	2491.4
25°	2442.1	2428.6	2416.0	2407.3	2414.1
27.5°	2355.1	2343.5	2327.0	2324.1	2329.9
30°	2256.5	2247.8	2233.3	2229.4	2238.1
32.5°	2155.9	2141.4	2121.1	2121.1	2123.1
35°	2027.3	2024.4	2004.1	2005.1	2007.0
37.5°	1911.3	1897.8	1886.2	1874.6	1880.4
40°	1782.7	1767.3	1751.8	1744.1	1741.2
42.5°	1644.5	1632.9	1626.1	1598.1	1591.3
45°	1508.2	1498.5	1487.9	1451.1	1428.9
47.5°	1369.0	1367.0	1358.3	1293.6	1271.3
50°	1239.4	1236.5	1205.6	1136.9	1114.7
52.5°	1116.6	1097.3	1056.7	989.0	985.2
55°	992.9	961.9	903.9	859.5	857.5
57.5°	862.4	825.6	766.7	742.5	755.1
60°	758.0	701.9	634.2	637.1	657.4
62.5°	649.7	586.8	520.1	549.1	573.3
65°	558.8	492.1	421.5	478.6	511.4
67.5°	479.5	417.7	350.0	426.4	458.3
70°	413.8	363.5	297.8	378.0	413.8
72.5°	361.6	315.2	263.9	339.3	380.9
75°	313.2	271.7	239.8	298.7	345.1
77.5°	271.7	231.1	216.6	263.9	309.4
80°	228.2	191.4	189.5	230.1	263.9
82.5°	177.9	152.8	152.8	192.4	212.7
85°	125.7	110.2	107.3	140.2	142.1
87.5°	64.8	61.9	56.1	73.5	73.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)