

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: P293529

Luminaire Tested: **24GR-LD5-72-A-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293529
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-L82765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7646.0 lumens
Efficiency: N/A
Efficacy: 139.3 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

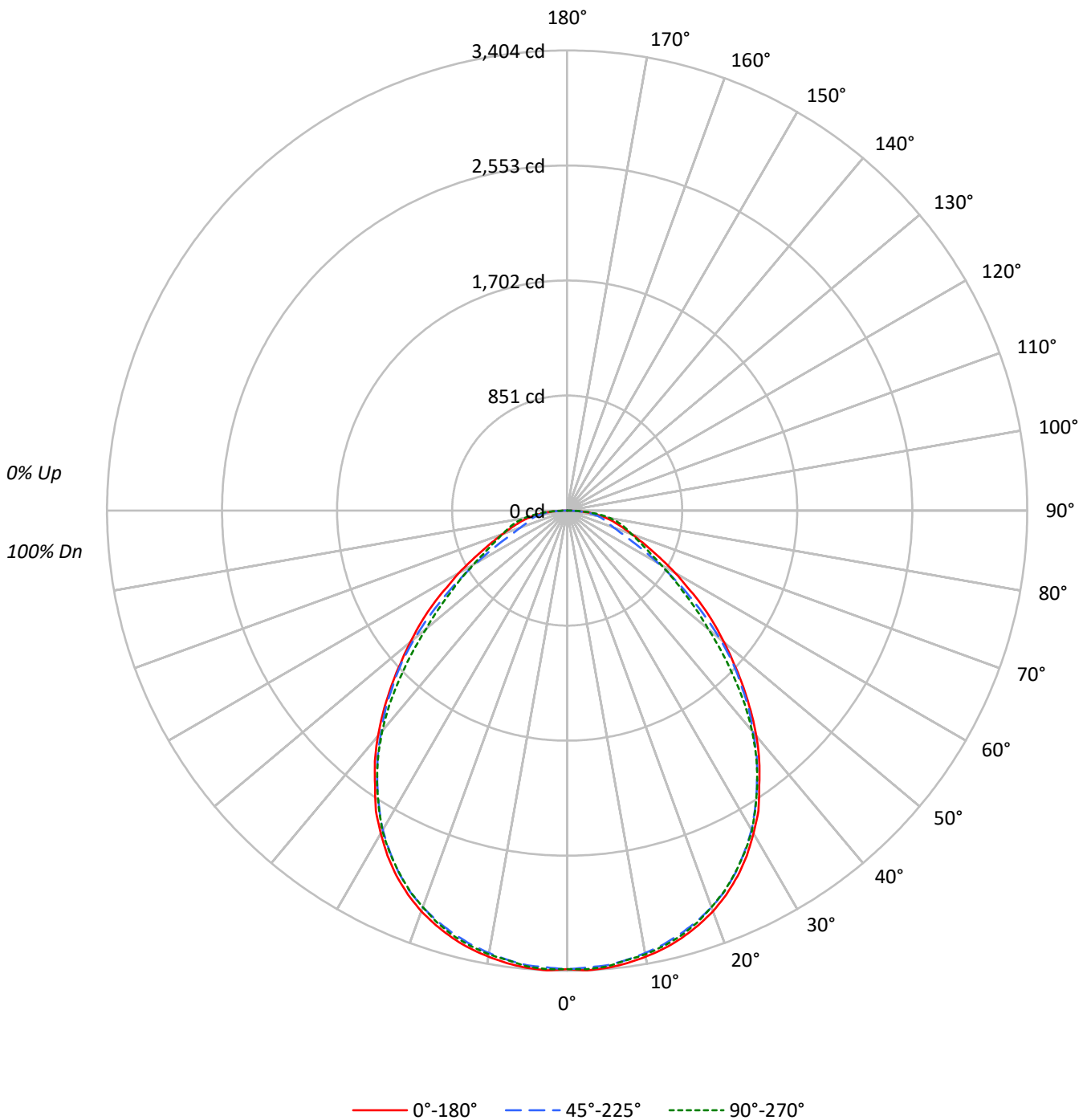
Input Watts (W): 54.87
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4564	4564	4564
5°	4587	4561	4572
10°	4578	4541	4554
15°	4561	4515	4535
20°	4517	4472	4470
25°	4430	4382	4379
30°	4283	4239	4248
35°	4069	4022	4028
40°	3826	3759	3737
45°	3506	3459	3322
50°	3170	3083	2851
55°	2846	2591	2458
60°	2492	2085	2161
65°	2174	1640	1989
70°	1989	1431	1989
75°	1989	1523	2192
80°	2160	1794	2499
85°	2371	2024	2680



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.3	4.2
10°-20°	916.8	12.0
20°-30°	1359.4	17.8
30°-40°	1533.6	20.1
40°-50°	1389.0	18.2
50°-60°	1002.1	13.1
60°-70°	598.3	7.8
70°-80°	369.8	4.8
80°-90°	155.8	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°	2597.5	34.0
0°-40°	4131.1	54.0
0°-60°	6522.1	85.3
0°-90°	7646.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7646.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3392	3392	3392	3392	3392	
5°	3396	3391	3377	3374	3385	323
15°	3274	3254	3241	3242	3255	923
25°	2984	2967	2952	2941	2950	1371
35°	2477	2474	2449	2450	2452	1550
45°	1843	1831	1818	1773	1746	1420
55°	1213	1175	1104	1050	1048	1083
65°	683	601	515	585	625	687
75°	383	332	293	365	422	409
85°	154	135	131	171	174	160
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3392.4	3392.4	3392.4	3392.4	3392.4
2.5°	3404.3	3394.8	3383.0	3390.1	3396.0
5°	3396.0	3391.3	3377.1	3373.5	3385.4
7.5°	3378.3	3366.5	3353.5	3359.4	3354.6
10°	3351.1	3340.5	3323.9	3325.1	3333.4
12.5°	3318.0	3305.0	3287.3	3292.0	3299.1
15°	3274.3	3254.2	3241.2	3242.4	3255.4
17.5°	3218.8	3203.4	3186.9	3190.5	3196.4
20°	3155.0	3146.7	3123.1	3116.0	3121.9
22.5°	3074.7	3059.3	3046.3	3042.8	3044.0
25°	2983.7	2967.2	2951.8	2941.2	2949.5
27.5°	2877.4	2863.3	2843.2	2839.6	2846.7
30°	2756.9	2746.3	2728.6	2723.9	2734.5
32.5°	2634.1	2616.4	2591.6	2591.6	2593.9
35°	2477.0	2473.5	2448.7	2449.8	2452.2
37.5°	2335.3	2318.7	2304.5	2290.4	2297.5
40°	2178.2	2159.3	2140.4	2130.9	2127.4
42.5°	2009.2	1995.1	1986.8	1952.5	1944.3
45°	1842.7	1830.9	1817.9	1773.0	1745.8
47.5°	1672.6	1670.2	1659.6	1580.5	1553.3
50°	1514.3	1510.8	1473.0	1389.1	1361.9
52.5°	1364.3	1340.7	1291.1	1208.4	1203.7
55°	1213.1	1175.3	1104.4	1050.1	1047.7
57.5°	1053.6	1008.8	936.7	907.2	922.5
60°	926.1	857.6	774.9	778.4	803.2
62.5°	793.8	717.0	635.5	670.9	700.5
65°	682.7	601.2	515.0	584.7	624.9
67.5°	585.9	510.3	427.6	520.9	559.9
70°	505.6	444.1	363.8	461.9	505.6
72.5°	441.8	385.1	322.5	414.6	465.4
75°	382.7	331.9	292.9	365.0	421.7
77.5°	331.9	282.3	264.6	322.5	378.0
80°	278.8	233.9	231.5	281.1	322.5
82.5°	217.3	186.6	186.6	235.1	259.9
85°	153.6	134.7	131.1	171.3	173.6
87.5°	79.1	75.6	68.5	89.8	89.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)