

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: P293528

Luminaire Tested: **24GR-LD5-72-A-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293528
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-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7626.0 lumens
Efficiency: N/A
Efficacy: 141.1 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

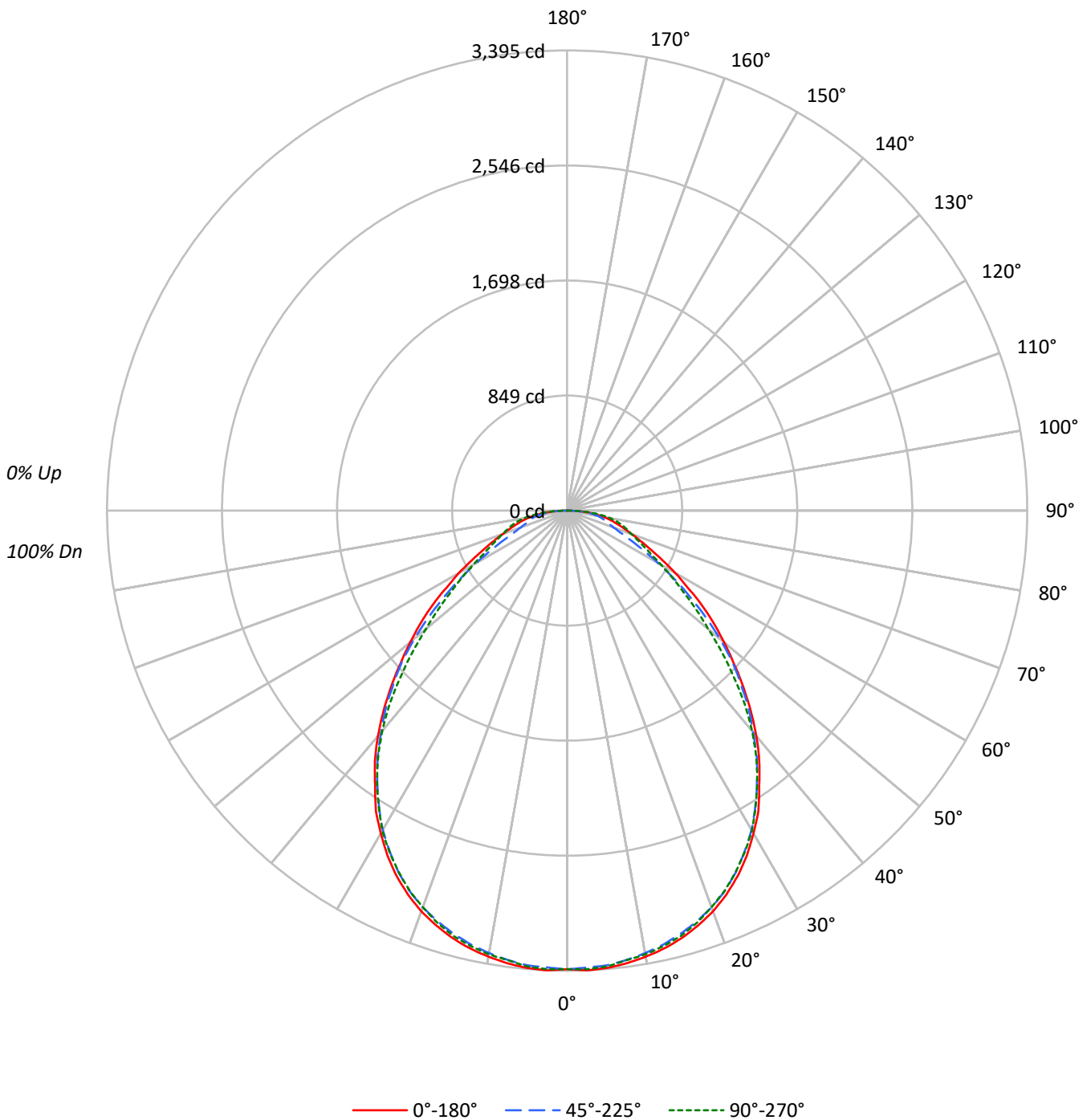
Input Watts (W): 54.033
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4553	4553	4553
5°	4575	4549	4560
10°	4566	4529	4542
15°	4549	4503	4523
20°	4506	4460	4458
25°	4418	4371	4367
30°	4272	4228	4237
35°	4058	4011	4017
40°	3816	3750	3727
45°	3497	3450	3313
50°	3162	3075	2843
55°	2838	2584	2451
60°	2485	2080	2156
65°	2168	1635	1984
70°	1983	1428	1983
75°	1984	1519	2187
80°	2154	1789	2492
85°	2365	2019	2674



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.4	4.2
10°-20°	914.4	12.0
20°-30°	1355.9	17.8
30°-40°	1529.6	20.1
40°-50°	1385.3	18.2
50°-60°	999.4	13.1
60°-70°	596.8	7.8
70°-80°	368.8	4.8
80°-90°	155.4	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°	2590.7	34.0
0°-40°	4120.2	54.0
0°-60°	6505.0	85.3
0°-90°	7626.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7626.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3384	3384	3384	3384	3384	
5°	3387	3382	3368	3365	3376	322
15°	3266	3246	3233	3234	3247	921
25°	2976	2959	2944	2934	2942	1367
35°	2470	2467	2442	2443	2446	1546
45°	1838	1826	1813	1768	1741	1416
55°	1210	1172	1102	1047	1045	1080
65°	681	600	514	583	623	685
75°	382	331	292	364	421	408
85°	153	134	131	171	173	160
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3383.6	3383.6	3383.6	3383.6	3383.6
2.5°	3395.3	3385.9	3374.1	3381.2	3387.1
5°	3387.1	3382.4	3368.3	3364.7	3376.5
7.5°	3369.4	3357.6	3344.7	3350.6	3345.9
10°	3342.3	3331.7	3315.2	3316.4	3324.7
12.5°	3309.3	3296.4	3278.7	3283.4	3290.5
15°	3265.8	3245.7	3232.8	3233.9	3246.9
17.5°	3210.4	3195.1	3178.6	3182.1	3188.0
20°	3146.8	3138.5	3115.0	3107.9	3113.8
22.5°	3066.7	3051.3	3038.4	3034.8	3036.0
25°	2975.9	2959.4	2944.1	2933.5	2941.8
27.5°	2869.9	2855.8	2835.7	2832.2	2839.3
30°	2749.7	2739.1	2721.5	2716.8	2727.4
32.5°	2627.2	2609.5	2584.8	2584.8	2587.2
35°	2470.5	2467.0	2442.2	2443.4	2445.8
37.5°	2329.1	2312.7	2298.5	2284.4	2291.4
40°	2172.5	2153.6	2134.8	2125.3	2121.8
42.5°	2004.0	1989.8	1981.6	1947.4	1939.2
45°	1837.9	1826.1	1813.1	1768.4	1741.3
47.5°	1668.2	1665.9	1655.3	1576.3	1549.2
50°	1510.4	1506.8	1469.1	1385.5	1358.4
52.5°	1360.7	1337.2	1287.7	1205.2	1200.5
55°	1209.9	1172.2	1101.5	1047.4	1045.0
57.5°	1050.9	1006.1	934.3	904.8	920.1
60°	923.6	855.3	772.8	776.4	801.1
62.5°	791.7	715.1	633.8	669.2	698.6
65°	681.0	599.7	513.7	583.2	623.2
67.5°	584.3	508.9	426.5	519.6	558.4
70°	504.2	443.0	362.9	460.6	504.2
72.5°	440.6	384.1	321.6	413.5	464.2
75°	381.7	331.1	292.2	364.0	420.6
77.5°	331.1	281.6	263.9	321.6	377.0
80°	278.0	233.3	230.9	280.4	321.6
82.5°	216.8	186.1	186.1	234.4	259.2
85°	153.2	134.3	130.8	170.8	173.2
87.5°	78.9	75.4	68.3	89.5	89.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)