

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: P293662

Luminaire Tested: **24GR-LD5-85-A-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293662
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-LD5-85-A-UNV-L92765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7872.0 lumens
Efficiency: N/A
Efficacy: 122.7 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

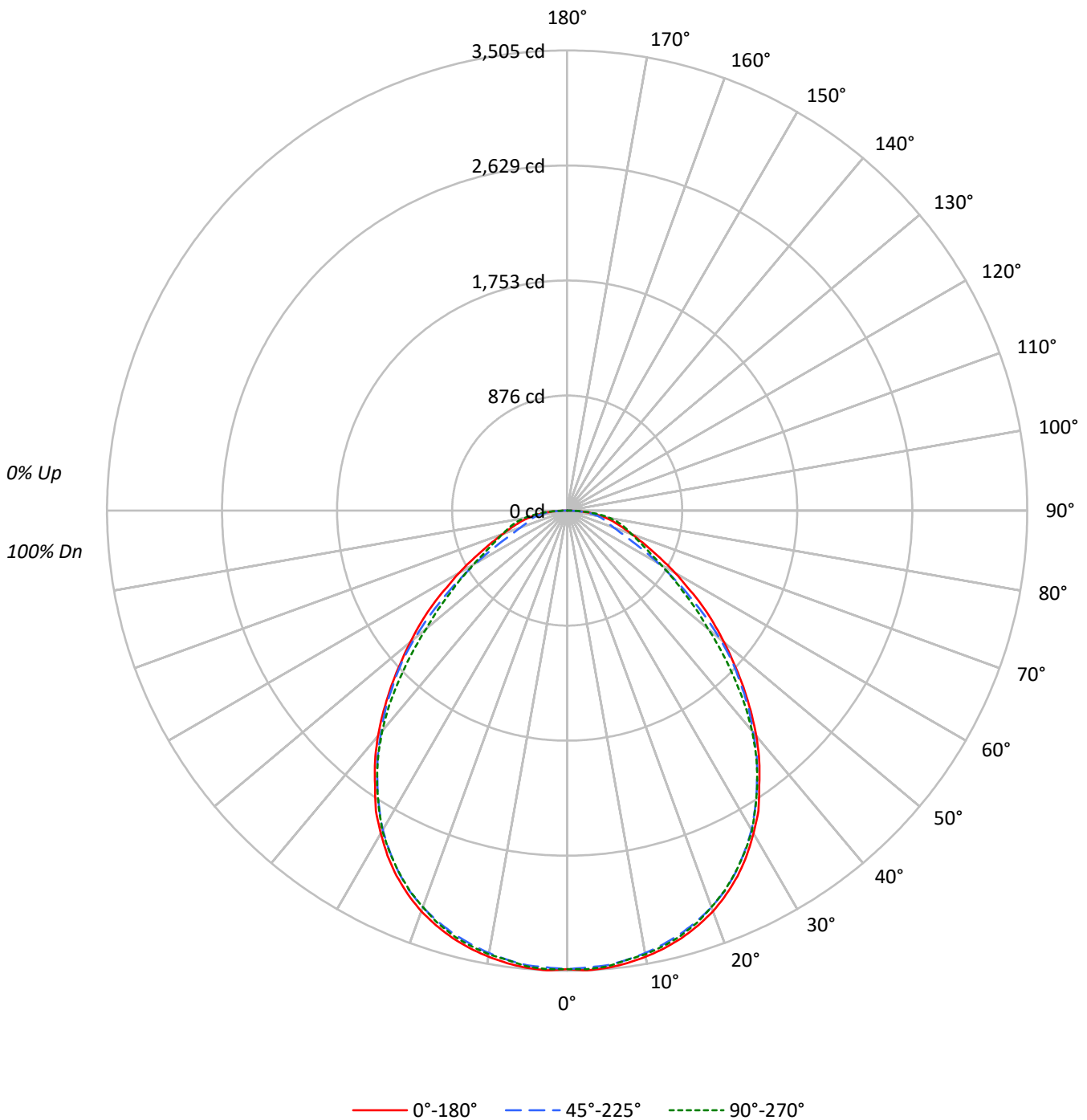
Input Watts (W): 64.17
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4699	4699	4699
5°	4722	4696	4707
10°	4714	4676	4689
15°	4696	4648	4669
20°	4651	4604	4602
25°	4560	4512	4508
30°	4410	4365	4374
35°	4189	4141	4147
40°	3939	3870	3847
45°	3610	3561	3420
50°	3264	3174	2935
55°	2930	2667	2530
60°	2566	2147	2225
65°	2238	1688	2048
70°	2048	1474	2048
75°	2048	1568	2257
80°	2224	1847	2572
85°	2441	2084	2760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.7	4.2
10°-20°	943.9	12.0
20°-30°	1399.6	17.8
30°-40°	1578.9	20.1
40°-50°	1430.0	18.2
50°-60°	1031.7	13.1
60°-70°	616.0	7.8
70°-80°	380.7	4.8
80°-90°	160.4	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°	2674.2	34.0
0°-40°	4253.2	54.0
0°-60°	6714.9	85.3
0°-90°	7872.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7872.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3493	3493	3493	3493	3493	
5°	3496	3492	3477	3473	3485	332
15°	3371	3350	3337	3338	3352	950
25°	3072	3055	3039	3028	3037	1411
35°	2550	2547	2521	2522	2525	1596
45°	1897	1885	1872	1825	1797	1462
55°	1249	1210	1137	1081	1079	1115
65°	703	619	530	602	643	707
75°	394	342	302	376	434	421
85°	158	139	135	176	179	165
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3492.7	3492.7	3492.7	3492.7	3492.7
2.5°	3504.9	3495.1	3483.0	3490.3	3496.4
5°	3496.4	3491.5	3476.9	3473.3	3485.4
7.5°	3478.1	3466.0	3452.6	3458.7	3453.8
10°	3450.2	3439.2	3422.2	3423.4	3431.9
12.5°	3416.1	3402.7	3384.5	3389.3	3396.6
15°	3371.1	3350.4	3337.1	3338.3	3351.6
17.5°	3313.9	3298.1	3281.1	3284.8	3290.8
20°	3248.3	3239.8	3215.4	3208.1	3214.2
22.5°	3165.6	3149.8	3136.4	3132.7	3134.0
25°	3071.9	3054.9	3039.1	3028.2	3036.7
27.5°	2962.5	2947.9	2927.2	2923.6	2930.9
30°	2838.4	2827.5	2809.3	2804.4	2815.3
32.5°	2712.0	2693.7	2668.2	2668.2	2670.6
35°	2550.2	2546.6	2521.0	2522.2	2524.7
37.5°	2404.3	2387.3	2372.7	2358.1	2365.4
40°	2242.5	2223.1	2203.6	2193.9	2190.2
42.5°	2068.6	2054.0	2045.5	2010.3	2001.7
45°	1897.2	1885.0	1871.6	1825.4	1797.4
47.5°	1722.0	1719.6	1708.7	1627.2	1599.2
50°	1559.1	1555.4	1516.5	1430.2	1402.2
52.5°	1404.6	1380.3	1329.2	1244.1	1239.2
55°	1249.0	1210.0	1137.1	1081.1	1078.7
57.5°	1084.8	1038.6	964.4	934.0	949.8
60°	953.4	882.9	797.8	801.4	827.0
62.5°	817.2	738.2	654.3	690.8	721.2
65°	702.9	619.0	530.2	602.0	643.3
67.5°	603.2	525.4	440.2	536.3	576.4
70°	520.5	457.3	374.6	475.5	520.5
72.5°	454.8	396.5	332.0	426.9	479.2
75°	394.0	341.7	301.6	375.8	434.2
77.5°	341.7	290.7	272.4	332.0	389.2
80°	287.0	240.8	238.4	289.4	332.0
82.5°	223.8	192.1	192.1	242.0	267.5
85°	158.1	138.6	135.0	176.3	178.8
87.5°	81.5	77.8	70.5	92.4	92.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)