

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: P293537

Luminaire Tested: **24GR-LD5-85-A-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293537
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-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: 8743.0 lumens
Efficiency: N/A
Efficacy: 136.2 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

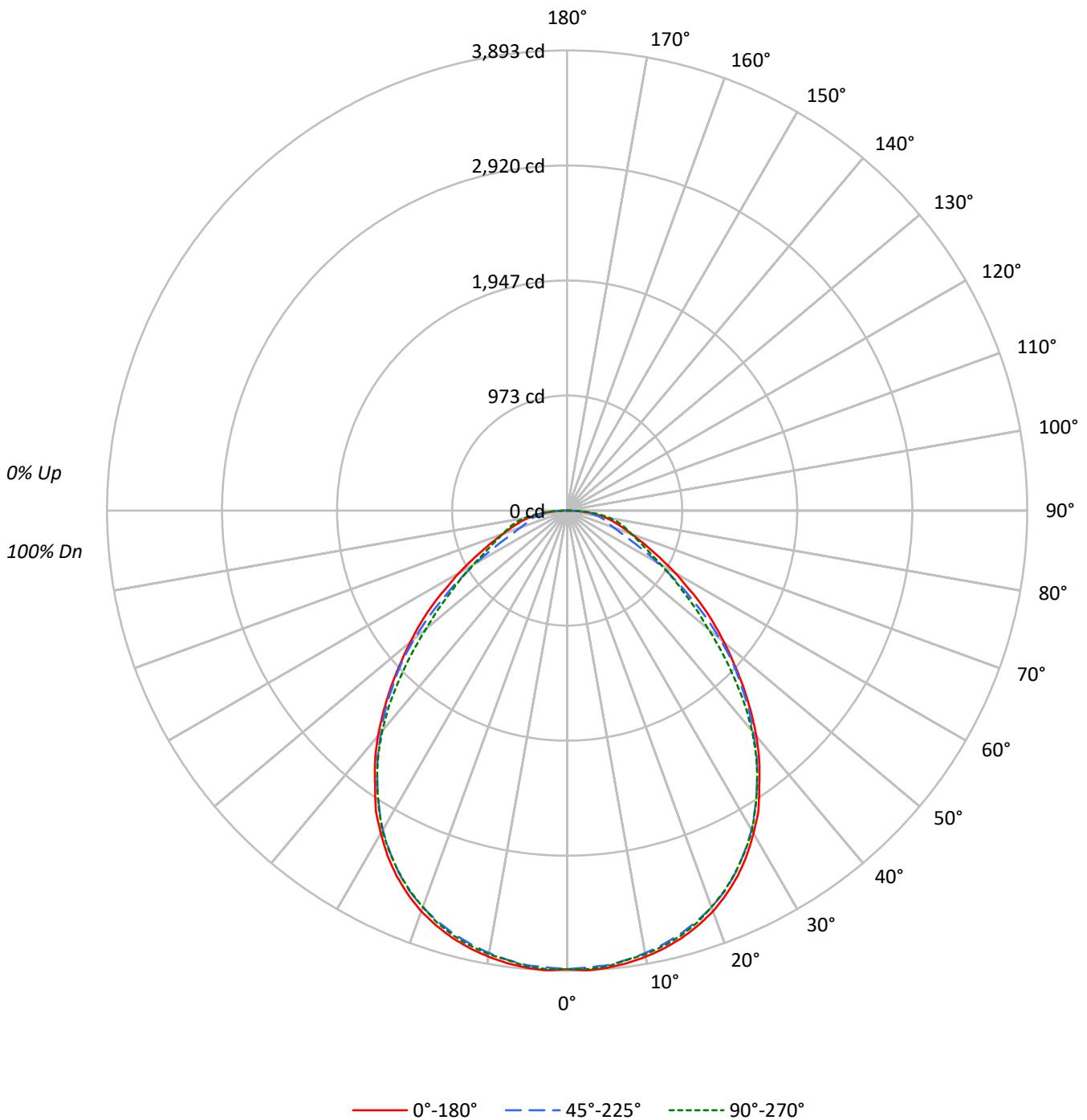
Input Watts (W): 64.17
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5219	5219	5219
5°	5245	5216	5228
10°	5235	5193	5208
15°	5215	5163	5185
20°	5166	5113	5112
25°	5065	5011	5007
30°	4898	4848	4858
35°	4652	4599	4606
40°	4375	4299	4273
45°	4009	3955	3799
50°	3625	3526	3260
55°	3254	2962	2810
60°	2849	2384	2472
65°	2486	1875	2275
70°	2274	1637	2274
75°	2275	1742	2507
80°	2470	2051	2857
85°	2711	2314	3066



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.3	4.2
10°-20°	1048.3	12.0
20°-30°	1554.5	17.8
30°-40°	1753.6	20.1
40°-50°	1588.3	18.2
50°-60°	1145.8	13.1
60°-70°	684.2	7.8
70°-80°	422.9	4.8
80°-90°	178.1	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°	2970.1	34.0
0°-40°	4723.8	54.0
0°-60°	7457.9	85.3
0°-90°	8743.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8743.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3879	3879	3879	3879	3879	
5°	3883	3878	3862	3858	3871	369
15°	3744	3721	3706	3708	3722	1055
25°	3412	3393	3375	3363	3373	1567
35°	2832	2828	2800	2801	2804	1772
45°	2107	2094	2079	2027	1996	1624
55°	1387	1344	1263	1201	1198	1238
65°	781	688	589	669	714	785
75°	438	380	335	417	482	467
85°	176	154	150	196	199	183
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3879.2	3879.2	3879.2	3879.2	3879.2
2.5°	3892.7	3881.9	3868.4	3876.5	3883.2
5°	3883.2	3877.8	3861.6	3857.6	3871.1
7.5°	3863.0	3849.5	3834.6	3841.3	3835.9
10°	3831.9	3819.7	3800.8	3802.2	3811.6
12.5°	3794.1	3779.2	3759.0	3764.4	3772.5
15°	3744.1	3721.1	3706.3	3707.6	3722.5
17.5°	3680.6	3663.1	3644.1	3648.2	3655.0
20°	3607.7	3598.2	3571.2	3563.1	3569.9
22.5°	3515.8	3498.3	3483.4	3479.4	3480.7
25°	3411.8	3392.9	3375.4	3363.2	3372.7
27.5°	3290.3	3274.1	3251.1	3247.0	3255.2
30°	3152.5	3140.3	3120.1	3114.7	3126.8
32.5°	3012.0	2991.8	2963.4	2963.4	2966.1
35°	2832.4	2828.3	2800.0	2801.3	2804.0
37.5°	2670.3	2651.4	2635.2	2619.0	2627.1
40°	2490.7	2469.1	2447.4	2436.6	2432.6
42.5°	2297.5	2281.3	2271.9	2232.7	2223.2
45°	2107.1	2093.6	2078.7	2027.4	1996.3
47.5°	1912.6	1909.9	1897.7	1807.2	1776.2
50°	1731.6	1727.5	1684.3	1588.4	1557.3
52.5°	1560.0	1533.0	1476.3	1381.8	1376.3
55°	1387.2	1343.9	1262.9	1200.8	1198.1
57.5°	1204.8	1153.5	1071.1	1037.3	1054.9
60°	1058.9	980.6	886.0	890.1	918.5
62.5°	907.7	819.9	726.7	767.2	801.0
65°	780.7	687.5	588.9	668.6	714.5
67.5°	669.9	583.5	488.9	595.7	640.2
70°	578.1	507.9	416.0	528.1	578.1
72.5°	505.2	440.3	368.7	474.1	532.2
75°	437.6	379.5	335.0	417.4	482.2
77.5°	379.5	322.8	302.6	368.7	432.2
80°	318.8	267.4	264.7	321.5	368.7
82.5°	248.5	213.4	213.4	268.8	297.2
85°	175.6	154.0	149.9	195.8	198.6
87.5°	90.5	86.4	78.3	102.7	102.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)