

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: P293033

Luminaire Tested: **24GR-LD5-85-F1-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293033
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-85-F1-UNV-L82765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8642.0 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

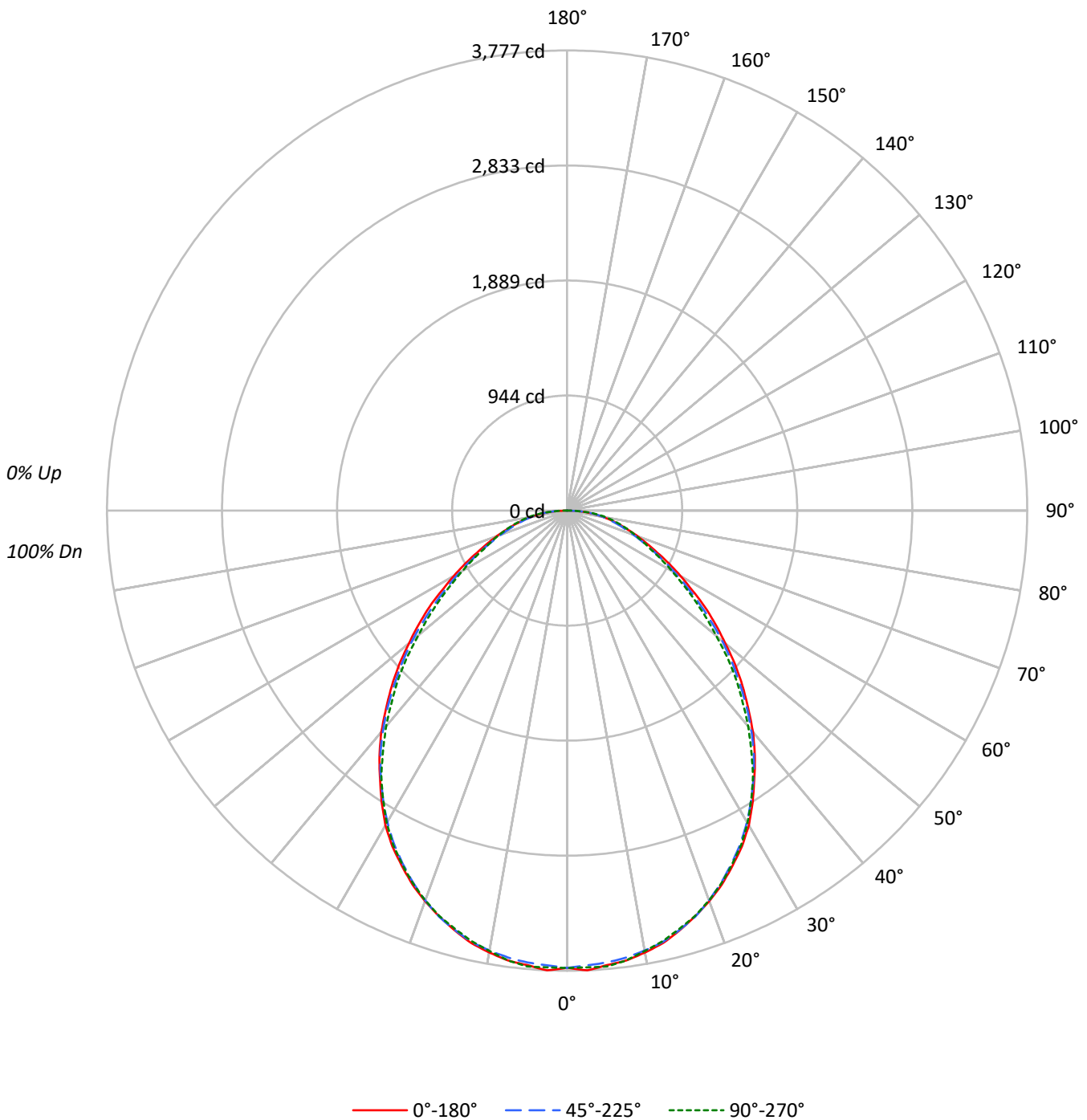
Input Watts (W): 64.17
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31					31			
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5051	5051	5051
5°	5058	5029	5073
10°	5031	5009	5014
15°	4968	4963	4951
20°	4885	4875	4875
25°	4771	4745	4755
30°	4633	4586	4600
35°	4401	4380	4368
40°	4167	4129	4057
45°	3873	3805	3731
50°	3548	3470	3339
55°	3240	3094	2990
60°	2887	2749	2676
65°	2599	2463	2429
70°	2412	2265	2356
75°	2307	2205	2391
80°	2307	2307	2555
85°	2394	2422	2697



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.5	4.1
10°-20°	1003.2	11.6
20°-30°	1472.4	17.0
30°-40°	1664.7	19.3
40°-50°	1538.5	17.8
50°-60°	1185.3	13.7
60°-70°	784.9	9.1
70°-80°	467.2	5.4
80°-90°	171.2	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°	2830.2	32.7
0°-40°	4494.8	52.0
0°-60°	7218.7	83.5
0°-90°	8642.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8642.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3754	3754	3754	3754	3754	
5°	3745	3745	3724	3725	3756	356
15°	3567	3560	3563	3561	3554	1005
25°	3214	3205	3196	3192	3203	1480
35°	2679	2676	2667	2654	2659	1676
45°	2036	2021	2000	1964	1961	1568
55°	1381	1353	1319	1283	1274	1232
65°	816	804	774	766	763	818
75°	444	433	424	444	460	473
85°	155	146	157	173	175	165
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3753.9	3753.9	3753.9	3753.9	3753.9
2.5°	3777.1	3757.4	3736.1	3736.1	3752.1
5°	3745.0	3745.0	3723.6	3725.4	3755.7
7.5°	3725.4	3714.7	3700.4	3700.4	3723.6
10°	3682.6	3673.7	3666.5	3663.0	3670.1
12.5°	3636.2	3622.0	3627.3	3622.0	3620.2
15°	3566.7	3559.6	3563.2	3561.4	3554.2
17.5°	3491.9	3488.3	3495.4	3482.9	3488.3
20°	3411.6	3401.0	3404.5	3397.4	3404.5
22.5°	3320.7	3313.6	3304.7	3295.8	3310.0
25°	3213.8	3204.9	3196.0	3192.4	3203.1
27.5°	3106.8	3092.6	3080.1	3076.5	3092.6
30°	2982.1	2966.0	2951.8	2948.2	2960.7
32.5°	2834.1	2830.6	2812.7	2805.6	2811.0
35°	2679.1	2675.5	2666.6	2654.1	2659.4
37.5°	2531.1	2529.3	2516.8	2495.5	2481.2
40°	2372.5	2360.0	2351.1	2320.8	2310.1
42.5°	2197.8	2194.2	2178.2	2144.3	2131.8
45°	2035.6	2021.3	1999.9	1964.3	1960.7
47.5°	1868.0	1848.4	1828.8	1784.3	1782.5
50°	1695.1	1680.9	1657.7	1613.1	1595.3
52.5°	1534.7	1515.1	1483.0	1440.2	1431.3
55°	1381.4	1352.9	1319.0	1283.4	1274.5
57.5°	1217.4	1204.9	1164.0	1135.4	1124.7
60°	1073.0	1062.4	1021.4	994.6	994.6
62.5°	942.9	926.9	891.2	873.4	873.4
65°	816.4	803.9	773.6	766.5	762.9
67.5°	707.6	691.6	670.2	668.4	677.3
70°	613.2	593.6	575.7	593.6	598.9
72.5°	524.0	511.6	495.5	518.7	529.4
75°	443.8	433.1	424.2	443.8	459.9
77.5°	370.8	360.1	360.1	381.4	395.7
80°	297.7	290.5	297.7	315.5	329.8
82.5°	228.2	222.8	231.7	249.5	258.5
85°	155.1	146.2	156.9	172.9	174.7
87.5°	73.1	71.3	78.4	89.1	87.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)