

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: P293159

Luminaire Tested: **24GR-LD5-85-F1-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293159
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-L92765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7814.0 lumens
Efficiency: N/A
Efficacy: 121.6 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

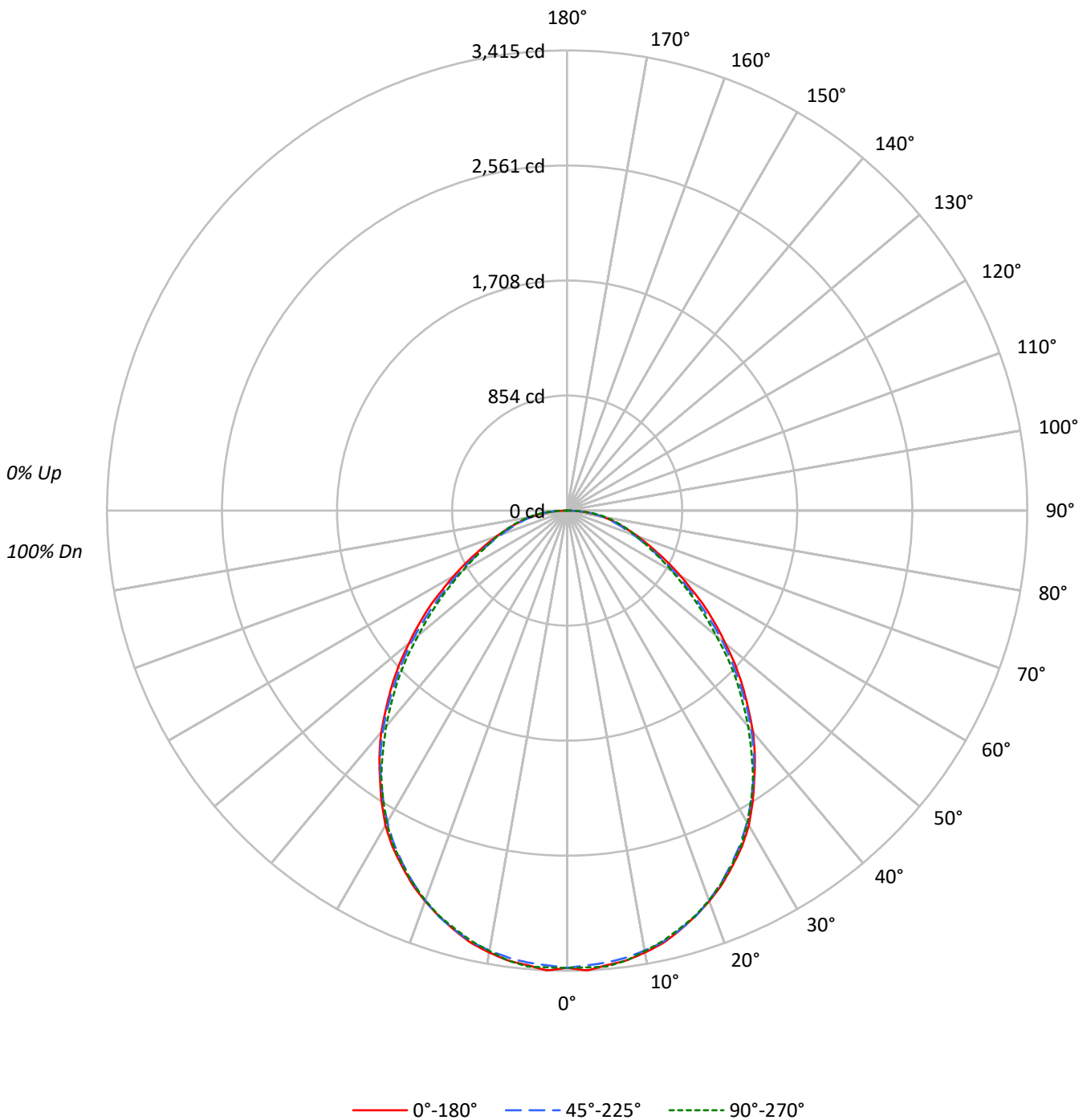
Input Watts (W): 64.263
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4567	4567	4567
5°	4573	4547	4586
10°	4549	4529	4534
15°	4492	4488	4477
20°	4417	4408	4408
25°	4314	4290	4300
30°	4189	4147	4159
35°	3979	3960	3950
40°	3768	3734	3669
45°	3502	3441	3373
50°	3208	3138	3019
55°	2930	2798	2703
60°	2611	2485	2420
65°	2350	2227	2196
70°	2181	2048	2130
75°	2086	1994	2162
80°	2086	2086	2311
85°	2164	2189	2438



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.6	4.1
10°-20°	907.1	11.6
20°-30°	1331.3	17.0
30°-40°	1505.2	19.3
40°-50°	1391.1	17.8
50°-60°	1071.8	13.7
60°-70°	709.7	9.1
70°-80°	422.5	5.4
80°-90°	154.8	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°	2559.0	32.7
0°-40°	4064.2	52.0
0°-60°	6527.0	83.5
0°-90°	7814.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7814.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3394	3394	3394	3394	3394	
5°	3386	3386	3367	3368	3396	322
15°	3225	3218	3222	3220	3214	909
25°	2906	2898	2890	2886	2896	1338
35°	2422	2419	2411	2400	2405	1516
45°	1840	1828	1808	1776	1773	1418
55°	1249	1223	1193	1160	1152	1114
65°	738	727	700	693	690	740
75°	401	392	384	401	416	428
85°	140	132	142	156	158	149
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3394.2	3394.2	3394.2	3394.2	3394.2
2.5°	3415.2	3397.4	3378.1	3378.1	3392.6
5°	3386.2	3386.2	3366.8	3368.4	3395.8
7.5°	3368.4	3358.8	3345.9	3345.9	3366.8
10°	3329.7	3321.7	3315.2	3312.0	3318.5
12.5°	3287.8	3275.0	3279.8	3275.0	3273.3
15°	3225.0	3218.5	3221.8	3220.2	3213.7
17.5°	3157.3	3154.1	3160.5	3149.2	3154.1
20°	3084.8	3075.1	3078.3	3071.9	3078.3
22.5°	3002.6	2996.1	2988.1	2980.0	2992.9
25°	2905.9	2897.8	2889.8	2886.5	2896.2
27.5°	2809.2	2796.3	2785.0	2781.8	2796.3
30°	2696.4	2681.8	2669.0	2665.7	2677.0
32.5°	2562.6	2559.4	2543.2	2536.8	2541.6
35°	2422.4	2419.1	2411.1	2399.8	2404.6
37.5°	2288.6	2287.0	2275.7	2256.4	2243.5
40°	2145.2	2133.9	2125.8	2098.4	2088.7
42.5°	1987.2	1984.0	1969.5	1938.9	1927.6
45°	1840.5	1827.7	1808.3	1776.1	1772.9
47.5°	1689.0	1671.3	1653.6	1613.3	1611.7
50°	1532.7	1519.8	1498.9	1458.6	1442.5
52.5°	1387.7	1369.9	1340.9	1302.2	1294.2
55°	1249.1	1223.3	1192.6	1160.4	1152.4
57.5°	1100.8	1089.5	1052.4	1026.6	1017.0
60°	970.2	960.6	923.5	899.3	899.3
62.5°	852.6	838.1	805.8	789.7	789.7
65°	738.2	726.9	699.5	693.0	689.8
67.5°	639.8	625.3	606.0	604.4	612.4
70°	554.4	536.7	520.6	536.7	541.5
72.5°	473.8	462.6	448.0	469.0	478.7
75°	401.3	391.6	383.6	401.3	415.8
77.5°	335.2	325.6	325.6	344.9	357.8
80°	269.2	262.7	269.2	285.3	298.2
82.5°	206.3	201.5	209.5	225.6	233.7
85°	140.2	132.2	141.8	156.3	157.9
87.5°	66.1	64.5	70.9	80.6	79.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)