

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: P293532

Luminaire Tested: **24GR-LD5-85-A-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293532
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-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8191.0 lumens
Efficiency: N/A
Efficacy: 130.7 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

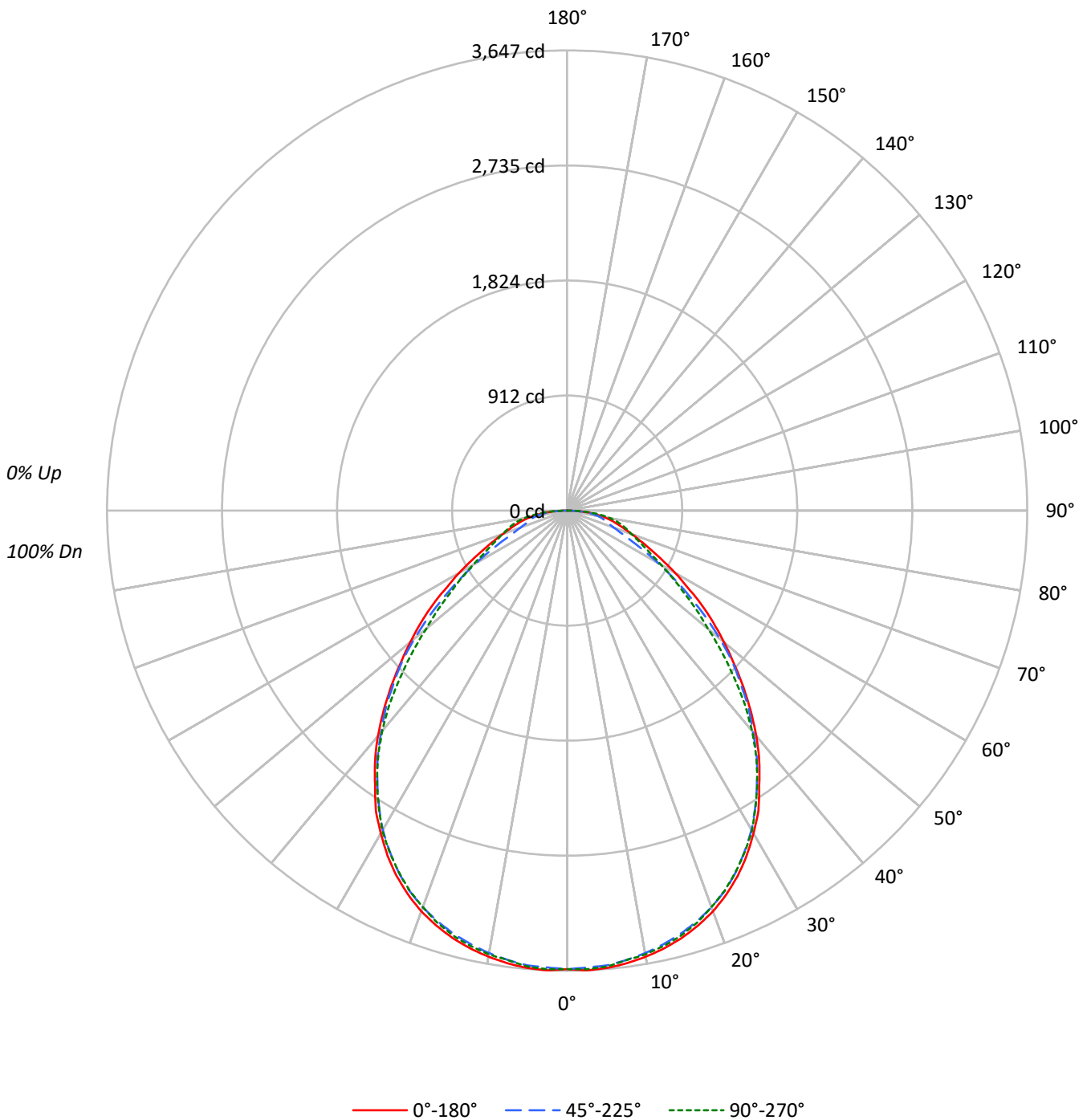
Input Watts (W): 62.682
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4890	4890	4890
5°	4914	4886	4898
10°	4905	4865	4879
15°	4886	4837	4858
20°	4839	4791	4789
25°	4745	4695	4691
30°	4589	4541	4551
35°	4359	4309	4315
40°	4098	4027	4003
45°	3756	3706	3559
50°	3396	3303	3054
55°	3049	2776	2633
60°	2670	2234	2316
65°	2329	1756	2131
70°	2131	1533	2131
75°	2131	1631	2349
80°	2314	1922	2677
85°	2540	2169	2871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.1	4.2
10°-20°	982.1	12.0
20°-30°	1456.3	17.8
30°-40°	1642.9	20.1
40°-50°	1488.0	18.2
50°-60°	1073.5	13.1
60°-70°	641.0	7.8
70°-80°	396.2	4.8
80°-90°	166.9	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°	2782.6	34.0
0°-40°	4425.5	54.0
0°-60°	6987.0	85.3
0°-90°	8191.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8191.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3634	3634	3634	3634	3634	
5°	3638	3633	3618	3614	3627	346
15°	3508	3486	3472	3474	3488	989
25°	3196	3179	3162	3151	3160	1468
35°	2654	2650	2623	2624	2627	1660
45°	1974	1961	1948	1899	1870	1521
55°	1300	1259	1183	1125	1122	1160
65°	731	644	552	626	669	736
75°	410	356	314	391	452	438
85°	164	144	140	184	186	172
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3634.3	3634.3	3634.3	3634.3	3634.3
2.5°	3646.9	3636.8	3624.1	3631.7	3638.0
5°	3638.0	3633.0	3617.8	3614.0	3626.7
7.5°	3619.1	3606.4	3592.5	3598.8	3593.8
10°	3590.0	3578.6	3560.9	3562.1	3571.0
12.5°	3554.5	3540.6	3521.6	3526.7	3534.3
15°	3507.7	3486.2	3472.3	3473.5	3487.5
17.5°	3448.2	3431.8	3414.1	3417.9	3424.2
20°	3379.9	3371.0	3345.7	3338.1	3344.5
22.5°	3293.9	3277.4	3263.5	3259.7	3261.0
25°	3196.4	3178.7	3162.3	3150.9	3159.7
27.5°	3082.5	3067.3	3045.8	3042.0	3049.6
30°	2953.5	2942.1	2923.1	2918.0	2929.4
32.5°	2821.9	2802.9	2776.3	2776.3	2778.8
35°	2653.6	2649.8	2623.2	2624.5	2627.0
37.5°	2501.7	2484.0	2468.8	2453.6	2461.2
40°	2333.4	2313.2	2292.9	2282.8	2279.0
42.5°	2152.5	2137.3	2128.4	2091.7	2082.9
45°	1974.0	1961.4	1947.5	1899.4	1870.3
47.5°	1791.8	1789.3	1777.9	1693.1	1664.0
50°	1622.3	1618.5	1578.0	1488.1	1459.0
52.5°	1461.5	1436.2	1383.1	1294.5	1289.5
55°	1299.6	1259.1	1183.2	1124.9	1122.4
57.5°	1128.7	1080.7	1003.5	971.8	988.3
60°	992.1	918.7	830.1	833.9	860.5
62.5°	850.4	768.1	680.8	718.8	750.4
65°	731.4	644.1	551.7	626.4	669.4
67.5°	627.6	546.7	458.1	558.0	599.8
70°	541.6	475.8	389.7	494.8	541.6
72.5°	473.3	412.5	345.5	444.2	498.6
75°	410.0	355.6	313.8	391.0	451.8
77.5°	355.6	302.4	283.5	345.5	404.9
80°	298.6	250.6	248.0	301.2	345.5
82.5°	232.8	199.9	199.9	251.8	278.4
85°	164.5	144.3	140.5	183.5	186.0
87.5°	84.8	81.0	73.4	96.2	96.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)