

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: P293530

Luminaire Tested: **24GR-LD5-85-A-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293530
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-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7695.0 lumens
Efficiency: N/A
Efficacy: 123.3 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

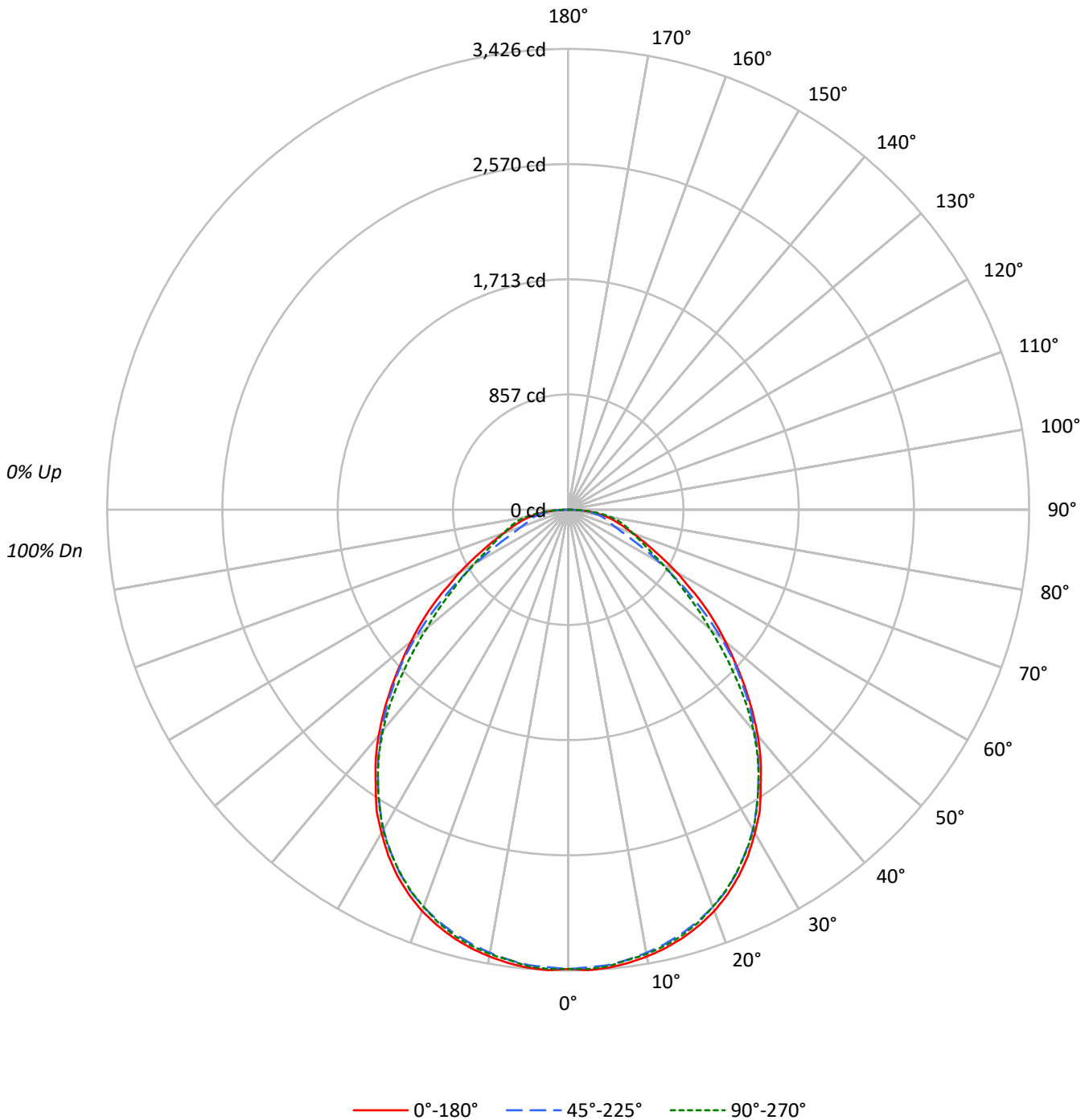
Input Watts (W): 62.403
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4594	4594	4594
5°	4616	4590	4602
10°	4608	4570	4583
15°	4590	4544	4564
20°	4546	4500	4499
25°	4458	4410	4407
30°	4311	4266	4276
35°	4095	4048	4054
40°	3850	3783	3760
45°	3529	3481	3343
50°	3190	3103	2869
55°	2864	2607	2473
60°	2508	2098	2175
65°	2188	1650	2002
70°	2002	1440	2002
75°	2002	1533	2206
80°	2174	1805	2514
85°	2385	2038	2699



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.3	4.2
10°-20°	922.7	12.0
20°-30°	1368.1	17.8
30°-40°	1543.4	20.1
40°-50°	1397.9	18.2
50°-60°	1008.5	13.1
60°-70°	602.2	7.8
70°-80°	372.2	4.8
80°-90°	156.8	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°	2614.1	34.0
0°-40°	4157.5	54.0
0°-60°	6563.9	85.3
0°-90°	7695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7695.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3414	3414	3414	3414	3414	
5°	3418	3413	3399	3395	3407	325
15°	3295	3275	3262	3263	3276	929
25°	3003	2986	2971	2960	2968	1380
35°	2493	2489	2464	2466	2468	1560
45°	1854	1843	1830	1784	1757	1429
55°	1221	1183	1112	1057	1054	1090
65°	687	605	518	588	629	691
75°	385	334	295	367	424	411
85°	154	136	132	172	175	161
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3414.2	3414.2	3414.2	3414.2	3414.2
2.5°	3426.1	3416.6	3404.7	3411.8	3417.7
5°	3417.7	3413.0	3398.7	3395.2	3407.0
7.5°	3399.9	3388.0	3375.0	3380.9	3376.1
10°	3372.6	3361.9	3345.2	3346.4	3354.7
12.5°	3339.3	3326.2	3308.4	3313.1	3320.3
15°	3295.3	3275.1	3262.0	3263.2	3276.3
17.5°	3239.4	3224.0	3207.3	3210.9	3216.8
20°	3175.2	3166.9	3143.1	3136.0	3142.0
22.5°	3094.4	3078.9	3065.9	3062.3	3063.5
25°	3002.9	2986.2	2970.8	2960.1	2968.4
27.5°	2895.9	2881.6	2861.4	2857.8	2865.0
30°	2774.6	2763.9	2746.1	2741.3	2752.0
32.5°	2651.0	2633.2	2608.2	2608.2	2610.6
35°	2492.9	2489.3	2464.3	2465.5	2467.9
37.5°	2350.2	2333.6	2319.3	2305.0	2312.2
40°	2192.1	2173.1	2154.1	2144.6	2141.0
42.5°	2022.1	2007.9	1999.5	1965.1	1956.7
45°	1854.5	1842.6	1829.5	1784.4	1757.0
47.5°	1683.3	1680.9	1670.2	1590.6	1563.2
50°	1524.0	1520.5	1482.4	1398.0	1370.7
52.5°	1373.0	1349.3	1299.3	1216.1	1211.4
55°	1220.9	1182.8	1111.5	1056.8	1054.4
57.5°	1060.4	1015.2	942.7	913.0	928.4
60°	932.0	863.1	779.8	783.4	808.4
62.5°	798.9	721.6	639.6	675.2	704.9
65°	687.1	605.1	518.3	588.4	628.9
67.5°	589.6	513.6	430.3	524.3	563.5
70°	508.8	447.0	366.1	464.8	508.8
72.5°	444.6	387.5	324.5	417.3	468.4
75°	385.2	334.0	294.8	367.3	424.4
77.5°	334.0	284.1	266.3	324.5	380.4
80°	280.6	235.4	233.0	282.9	324.5
82.5°	218.7	187.8	187.8	236.6	261.5
85°	154.5	135.5	132.0	172.4	174.8
87.5°	79.6	76.1	68.9	90.3	90.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)