

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: P231796

Luminaire Tested: **24GR-LD5-100-A-UNV-L930-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231796
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-100-A-UNV-L930-CD2-U
Description: METALUX 2X4 GRLED TROFFER
WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8004.8 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

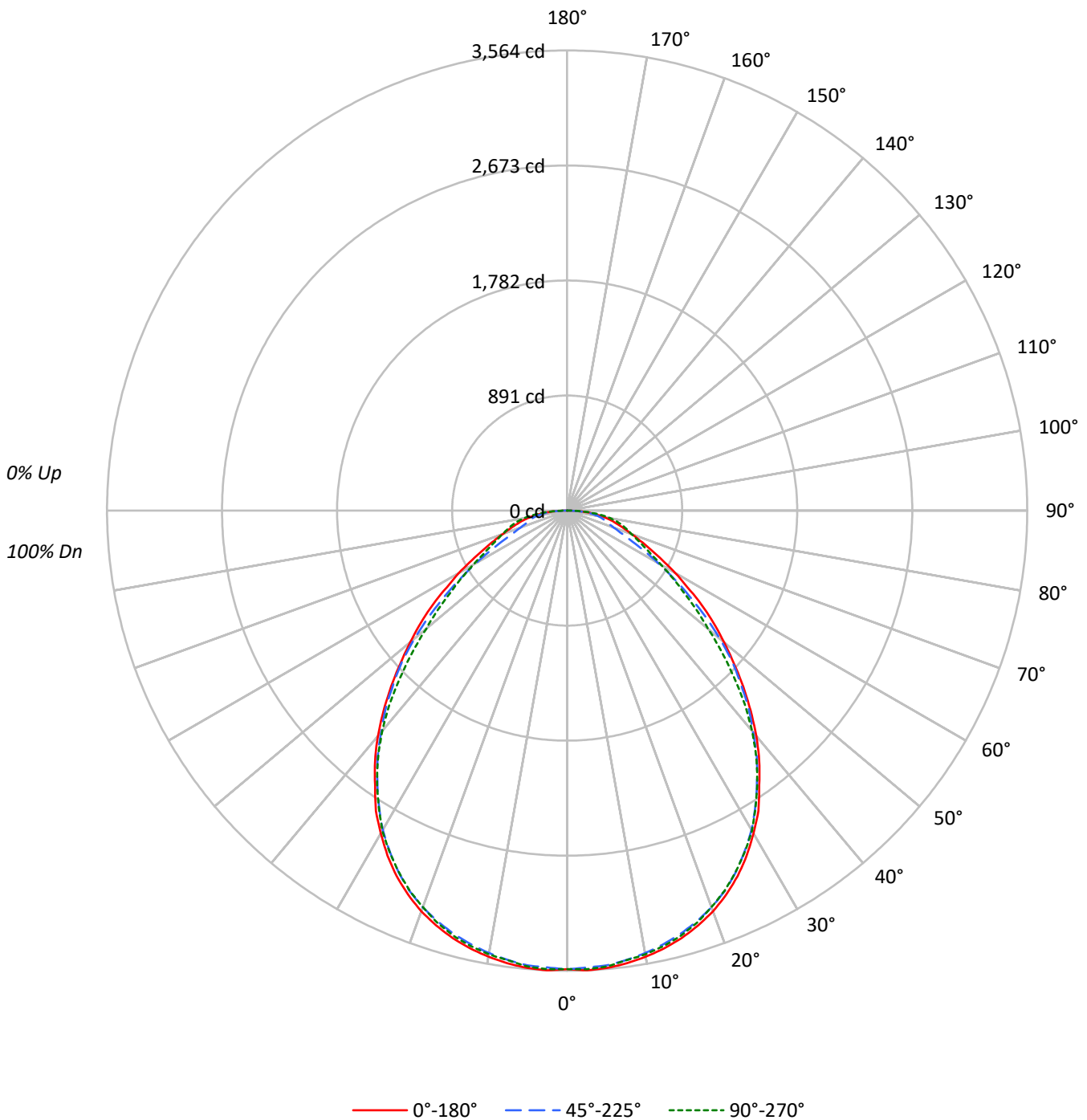
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5440	5440	5440
5°	5466	5436	5449
10°	5456	5412	5428
15°	5436	5381	5404
20°	5384	5329	5327
25°	5279	5223	5218
30°	5105	5052	5063
35°	4849	4793	4800
40°	4559	4480	4453
45°	4179	4122	3959
50°	3778	3674	3397
55°	3391	3088	2929
60°	2970	2485	2576
65°	2591	1954	2371
70°	2370	1706	2370
75°	2371	1815	2613
80°	2574	2138	2978
85°	2826	2413	3195



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.3	4.2
10°-20°	959.8	12.0
20°-30°	1423.2	17.8
30°-40°	1605.6	20.1
40°-50°	1454.2	18.2
50°-60°	1049.1	13.1
60°-70°	626.4	7.8
70°-80°	387.1	4.8
80°-90°	163.1	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°	2719.4	34.0
0°-40°	4324.9	54.0
0°-60°	6828.2	85.3
0°-90°	8004.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8004.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3552	3552	3552	3552	3552	
5°	3555	3550	3536	3532	3544	338
15°	3428	3407	3393	3395	3408	966
25°	3124	3106	3090	3079	3088	1435
35°	2593	2590	2564	2565	2567	1623
45°	1929	1917	1903	1856	1828	1487
55°	1270	1230	1156	1099	1097	1134
65°	715	629	539	612	654	719
75°	401	348	307	382	442	428
85°	161	141	137	179	182	168
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3551.7	3551.7	3551.7	3551.7	3551.7
2.5°	3564.0	3554.1	3541.7	3549.2	3555.4
5°	3555.4	3550.4	3535.6	3531.9	3544.2
7.5°	3536.8	3524.4	3510.8	3517.1	3512.1
10°	3508.4	3497.2	3479.9	3481.1	3489.8
12.5°	3473.8	3460.2	3441.6	3446.5	3453.9
15°	3428.0	3406.9	3393.3	3394.6	3408.2
17.5°	3369.9	3353.8	3336.5	3340.2	3346.3
20°	3303.1	3294.4	3269.7	3262.3	3268.4
22.5°	3219.0	3202.9	3189.3	3185.6	3186.8
25°	3123.8	3106.5	3090.4	3079.3	3087.9
27.5°	3012.5	2997.7	2976.6	2972.9	2980.3
30°	2886.3	2875.2	2856.6	2851.7	2862.9
32.5°	2757.7	2739.2	2713.2	2713.2	2715.7
35°	2593.2	2589.6	2563.6	2564.8	2567.3
37.5°	2444.8	2427.5	2412.7	2397.8	2405.3
40°	2280.4	2260.6	2240.8	2230.9	2227.2
42.5°	2103.5	2088.7	2080.0	2044.2	2035.5
45°	1929.1	1916.8	1903.2	1856.2	1827.8
47.5°	1751.1	1748.6	1737.5	1654.6	1626.2
50°	1585.4	1581.7	1542.1	1454.3	1425.8
52.5°	1428.4	1403.6	1351.7	1265.1	1260.2
55°	1270.0	1230.5	1156.3	1099.4	1096.9
57.5°	1103.1	1056.1	980.6	949.7	965.8
60°	969.6	897.8	811.2	814.9	840.9
62.5°	831.0	750.6	665.3	702.4	733.3
65°	714.8	629.4	539.2	612.1	654.2
67.5°	613.4	534.2	447.6	545.4	586.1
70°	529.3	464.9	380.9	483.6	529.3
72.5°	462.5	403.1	337.6	434.0	487.2
75°	400.7	347.5	306.7	382.1	441.5
77.5°	347.5	295.5	277.0	337.6	395.7
80°	291.8	244.9	242.4	294.3	337.6
82.5°	227.6	195.4	195.4	246.1	272.1
85°	160.8	141.0	137.3	179.3	181.8
87.5°	82.8	79.1	71.8	94.0	94.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)