

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: P231821

Luminaire Tested: **24GR-LD5-100-A125-UNV-L935-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231821
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-100-A125-UNV-L935-CD2-U
Description: METALUX 2X4 GRLED TROFFER
WITH A125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8541.7 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

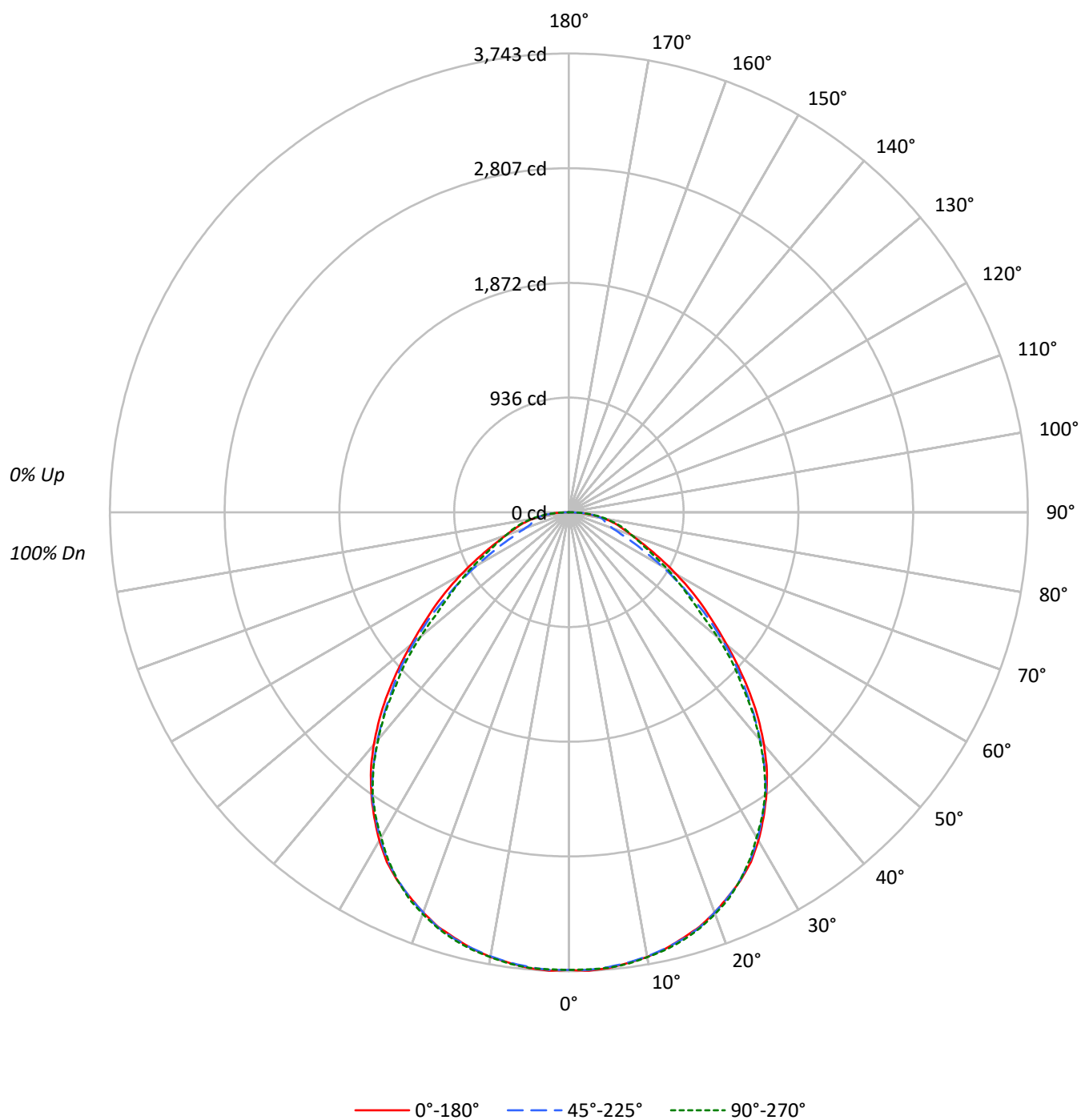
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P231821

CATALOG NUMBER: 24GR-LD5-100-A125-UNV-L935-CD2-U

Luminous Intensity Polar Plot





TEST NUMBER: P231821

CATALOG NUMBER: 24GR-LD5-100-A125-UNV-L935-CD2-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	105	101	98	107	103	100	96		99	96	93		95	93	90		91	90	88
2	101	93	87	82	98	91	86	81		88	83	79		85	81	77		82	79	76
3	93	83	76	70	90	82	75	69		79	73	68		76	71	67		73	69	66
4	86	75	66	60	83	73	66	60		71	64	59		68	63	58		66	61	57
5	79	67	59	53	77	66	58	52		64	57	52		62	56	51		60	55	51
6	73	61	53	47	72	60	52	46		58	51	46		57	50	46		55	50	45
7	68	56	47	42	67	55	47	41		53	46	41		52	46	41		51	45	41
8	64	51	43	37	62	50	43	37		49	42	37		48	41	37		47	41	37
9	60	47	39	34	58	46	39	34		45	38	34		44	38	33		43	38	33
10	56	44	36	31	55	43	36	31		42	35	31		41	35	31		40	35	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5717	5717	5717
5°	5736	5724	5734
10°	5728	5720	5730
15°	5701	5711	5726
20°	5662	5662	5684
25°	5598	5587	5591
30°	5467	5439	5413
35°	5252	5237	5217
40°	4948	4857	4836
45°	4526	4402	4321
50°	4001	3921	3769
55°	3558	3316	3188
60°	3098	2653	2845
65°	2675	2057	2516
70°	2441	1683	2435
75°	2460	1814	2587
80°	2562	2362	2726
85°	2669	2810	3021



TEST NUMBER: P231821

CATALOG NUMBER: 24GR-LD5-100-A125-UNV-L935-CD2-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.1	4.1
10°-20°	1015.4	11.9
20°-30°	1519.9	17.8
30°-40°	1736.8	20.3
40°-50°	1570.3	18.4
50°-60°	1129.7	13.2
60°-70°	654.9	7.7
70°-80°	388.5	4.5
80°-90°	172.1	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°	2889.4	33.8
0°-40°	4626.2	54.2
0°-60°	7326.2	85.8
0°-90°	8541.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8541.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3732	3732	3732	3732	3732	
5°	3731	3726	3723	3718	3730	354
15°	3595	3602	3602	3598	3611	1015
25°	3313	3309	3306	3299	3309	1523
35°	2809	2796	2801	2766	2790	1751
45°	2089	2053	2032	2014	1995	1605
55°	1332	1307	1242	1210	1194	1192
65°	738	656	568	634	694	745
75°	416	348	306	378	437	439
85°	152	164	160	184	172	163
90°	0	0	0	0	0	



TEST NUMBER: P231821

CATALOG NUMBER: 24GR-LD5-100-A125-UNV-L935-CD2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3732.4	3732.4	3732.4	3732.4	3732.4
2.5°	3743.1	3729.7	3736.4	3732.4	3731.1
5°	3731.1	3725.7	3723.1	3717.7	3729.7
7.5°	3707.1	3703.1	3704.4	3705.7	3713.7
10°	3683.1	3676.4	3677.8	3680.4	3684.4
12.5°	3645.8	3641.8	3643.1	3645.8	3655.1
15°	3595.2	3601.8	3601.8	3597.8	3611.1
17.5°	3544.5	3543.2	3549.9	3537.9	3556.5
20°	3473.9	3475.2	3473.9	3475.2	3487.2
22.5°	3394.0	3400.6	3396.6	3396.6	3409.9
25°	3312.6	3308.6	3306.0	3299.4	3308.6
27.5°	3215.4	3207.4	3200.8	3187.4	3194.0
30°	3091.4	3092.8	3075.5	3063.5	3060.8
32.5°	2952.9	2952.9	2936.9	2927.6	2935.6
35°	2809.0	2795.6	2801.0	2766.3	2790.3
37.5°	2653.0	2631.8	2619.8	2607.7	2615.8
40°	2474.5	2446.6	2429.2	2405.2	2418.5
42.5°	2286.6	2252.0	2230.7	2213.3	2218.7
45°	2089.4	2053.4	2032.1	2013.5	1994.8
47.5°	1881.6	1858.9	1848.2	1824.3	1802.9
50°	1679.0	1671.0	1645.7	1625.7	1581.7
52.5°	1493.8	1487.1	1447.1	1413.8	1357.9
55°	1332.5	1307.2	1241.9	1210.0	1193.9
57.5°	1168.7	1127.4	1048.7	1044.7	1055.4
60°	1011.4	960.8	866.2	887.5	928.8
62.5°	868.8	792.9	702.3	752.8	802.1
65°	738.2	655.6	567.6	634.3	694.3
67.5°	630.3	547.7	457.0	546.3	615.7
70°	545.0	461.0	375.8	478.4	543.7
72.5°	474.4	398.4	327.8	425.1	493.0
75°	415.7	347.8	306.5	378.4	437.1
77.5°	357.1	302.5	293.2	337.1	373.1
80°	290.5	265.2	267.8	295.8	309.1
82.5°	217.2	218.5	225.2	247.9	242.5
85°	151.9	163.9	159.9	183.9	171.9
87.5°	84.0	92.0	86.6	105.2	94.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)