

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: P231825

Luminaire Tested: **24GR-LD5-120-A125-UNV-L935-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231825
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-LD5-120-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: 10440.6 lumens
Efficiency: N/A
Efficacy: 115.9 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

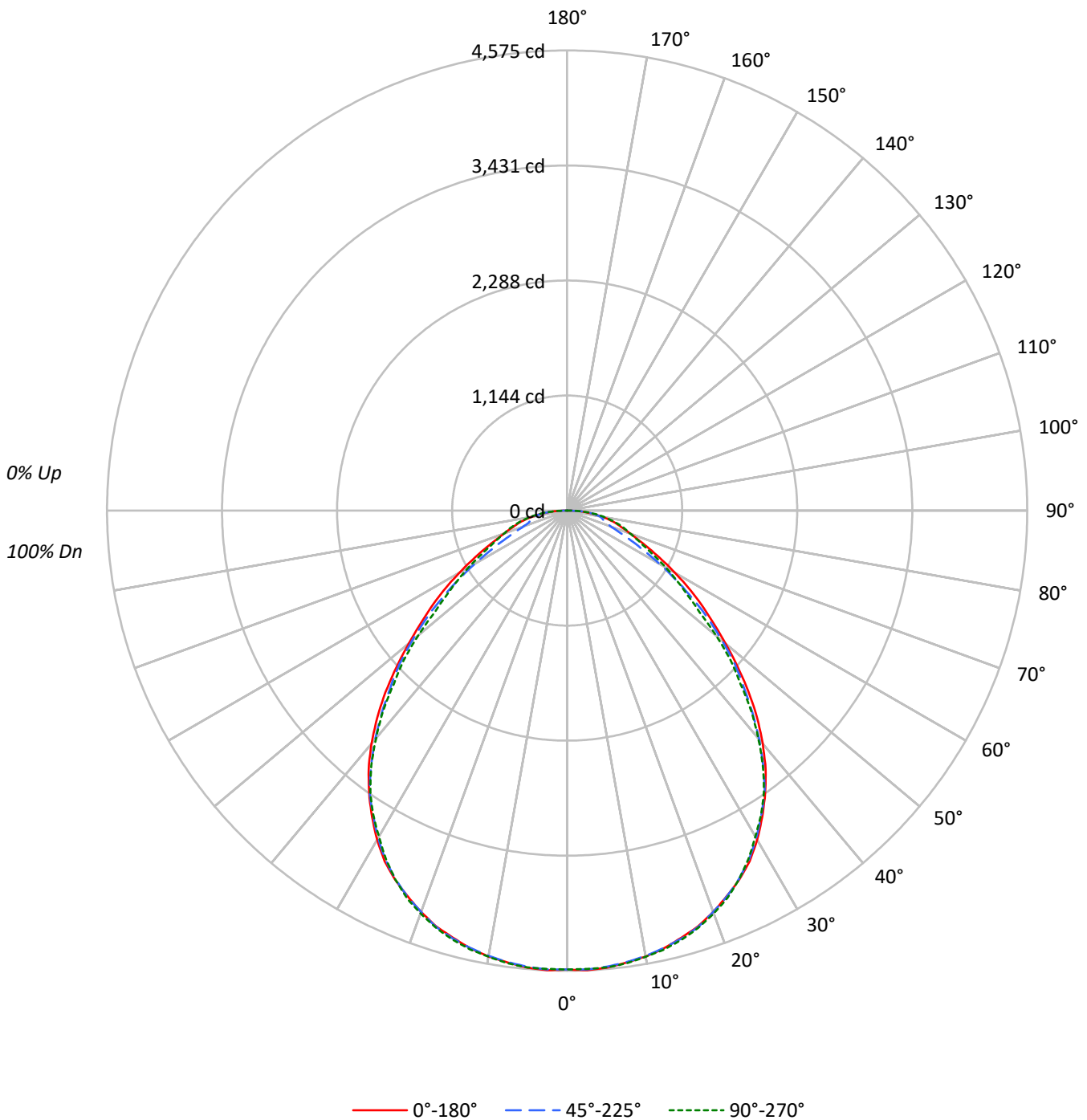
Input Watts (W): 90.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P231825

CATALOG NUMBER: 24GR-LD5-120-A125-UNV-L935-CD2-U

Luminous Intensity Polar Plot





TEST NUMBER: P231825

CATALOG NUMBER: 24GR-LD5-120-A125-UNV-L935-CD2-U

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	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					100			
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6987	6987	6987
5°	7012	6997	7009
10°	7002	6991	7004
15°	6968	6981	6999
20°	6921	6921	6948
25°	6843	6829	6835
30°	6683	6648	6617
35°	6420	6401	6377
40°	6047	5937	5911
45°	5532	5380	5281
50°	4890	4793	4607
55°	4349	4054	3897
60°	3787	3243	3478
65°	3270	2515	3075
70°	2983	2057	2976
75°	3007	2217	3161
80°	3131	2888	3333
85°	3262	3434	3692



TEST NUMBER: P231825

CATALOG NUMBER: 24GR-LD5-120-A125-UNV-L935-CD2-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.8	4.1
10°-20°	1241.2	11.9
20°-30°	1857.9	17.8
30°-40°	2122.9	20.3
40°-50°	1919.3	18.4
50°-60°	1380.8	13.2
60°-70°	800.5	7.7
70°-80°	474.9	4.5
80°-90°	210.3	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°	3531.8	33.8
0°-40°	5654.7	54.2
0°-60°	8954.9	85.8
0°-90°	10440.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10440.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4562	4562	4562	4562	4562	
5°	4560	4554	4551	4544	4559	433
15°	4394	4403	4403	4398	4414	1241
25°	4049	4044	4041	4033	4044	1862
35°	3433	3417	3424	3381	3411	2140
45°	2554	2510	2484	2461	2438	1962
55°	1629	1598	1518	1479	1459	1457
65°	902	801	694	775	849	911
75°	508	425	375	463	534	537
85°	186	200	195	225	210	199
90°	0	0	0	0	0	



TEST NUMBER: P231825

CATALOG NUMBER: 24GR-LD5-120-A125-UNV-L935-CD2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4562.1	4562.1	4562.1	4562.1	4562.1
2.5°	4575.2	4558.9	4567.0	4562.1	4560.5
5°	4560.5	4554.0	4550.7	4544.3	4558.9
7.5°	4531.2	4526.3	4528.0	4529.6	4539.3
10°	4501.9	4493.8	4495.4	4498.6	4503.6
12.5°	4456.3	4451.4	4453.1	4456.3	4467.7
15°	4394.4	4402.6	4402.6	4397.6	4414.0
17.5°	4332.5	4330.8	4339.0	4324.4	4347.2
20°	4246.2	4247.8	4246.2	4247.8	4262.5
22.5°	4148.4	4156.6	4151.7	4151.7	4168.0
25°	4049.1	4044.2	4041.0	4032.8	4044.2
27.5°	3930.2	3920.5	3912.3	3896.0	3904.1
30°	3778.8	3780.4	3759.2	3744.5	3741.3
32.5°	3609.4	3609.4	3589.8	3578.4	3588.2
35°	3433.4	3417.2	3423.6	3381.3	3410.6
37.5°	3242.8	3216.8	3202.1	3187.5	3197.3
40°	3024.6	2990.4	2969.2	2939.9	2956.2
42.5°	2795.0	2752.6	2726.5	2705.4	2711.9
45°	2553.9	2509.9	2483.9	2461.1	2438.2
47.5°	2299.8	2272.1	2259.1	2229.8	2203.7
50°	2052.2	2042.5	2011.5	1987.1	1933.3
52.5°	1825.8	1817.7	1768.8	1728.1	1659.7
55°	1628.8	1597.8	1518.0	1478.9	1459.4
57.5°	1428.4	1377.9	1281.8	1277.0	1290.0
60°	1236.2	1174.4	1058.7	1084.8	1135.3
62.5°	1062.0	969.1	858.3	920.2	980.5
65°	902.4	801.4	693.9	775.3	848.6
67.5°	770.4	669.5	558.7	667.8	752.5
70°	666.1	563.6	459.3	584.7	664.5
72.5°	579.9	487.0	400.7	519.6	602.6
75°	508.2	425.1	374.6	462.6	534.2
77.5°	436.5	369.8	358.4	412.1	456.0
80°	355.0	324.1	327.4	361.6	377.9
82.5°	265.5	267.2	275.2	302.9	296.4
85°	185.6	200.3	195.4	224.7	210.1
87.5°	102.6	112.4	105.9	128.7	115.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)