

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: P231833

Luminaire Tested: **24GR-LD5-150-A125-UNV-L935-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231833
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-LD5-150-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: 13063.7 lumens
Efficiency: N/A
Efficacy: 108.6 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

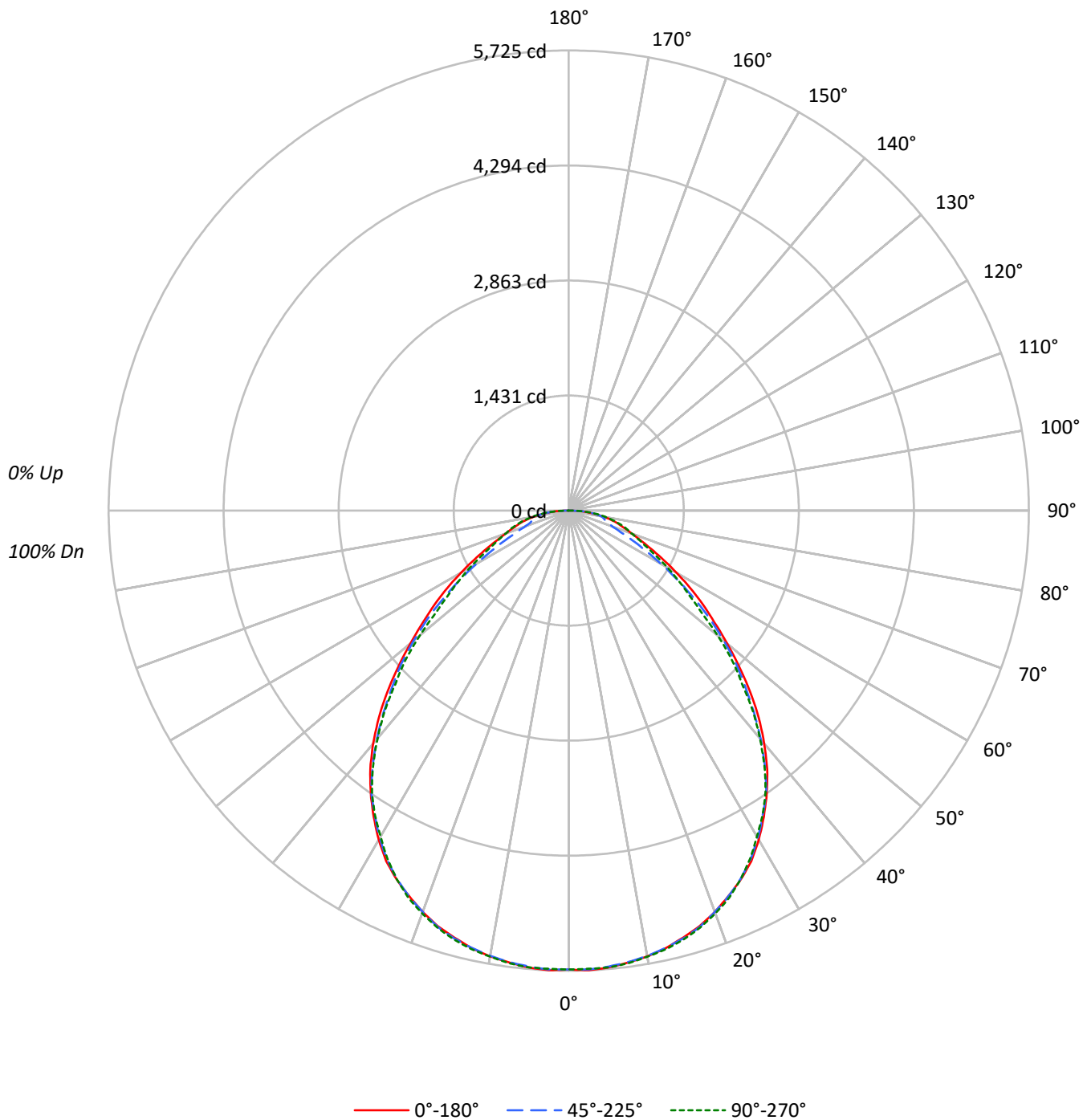
Input Watts (W): 120.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P231833

CATALOG NUMBER: 24GR-LD5-150-A125-UNV-L935-CD2-U

Luminous Intensity Polar Plot





TEST NUMBER: P231833

CATALOG NUMBER: 24GR-LD5-150-A125-UNV-L935-CD2-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
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°	8743	8743	8743
5°	8773	8755	8770
10°	8761	8748	8764
15°	8719	8735	8757
20°	8660	8660	8693
25°	8562	8545	8552
30°	8362	8319	8279
35°	8033	8010	7979
40°	7567	7428	7396
45°	6922	6732	6608
50°	6119	5997	5764
55°	5442	5072	4876
60°	4738	4058	4351
65°	4092	3146	3848
70°	3733	2574	3724
75°	3763	2774	3955
80°	3919	3613	4170
85°	4082	4297	4620



TEST NUMBER: P231833

CATALOG NUMBER: 24GR-LD5-150-A125-UNV-L935-CD2-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.5	4.1
10°-20°	1553.0	11.9
20°-30°	2324.6	17.8
30°-40°	2656.3	20.3
40°-50°	2401.5	18.4
50°-60°	1727.7	13.2
60°-70°	1001.6	7.7
70°-80°	594.2	4.5
80°-90°	263.1	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°	4419.1	33.8
0°-40°	7075.4	54.2
0°-60°	11204.7	85.8
0°-90°	13063.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13063.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5708	5708	5708	5708	5708	
5°	5706	5698	5694	5686	5704	542
15°	5498	5509	5509	5503	5523	1552
25°	5066	5060	5056	5046	5060	2329
35°	4296	4276	4284	4231	4268	2678
45°	3196	3140	3108	3079	3051	2455
55°	2038	1999	1899	1850	1826	1823
65°	1129	1003	868	970	1062	1140
75°	636	532	469	579	668	672
85°	232	251	244	281	263	249
90°	0	0	0	0	0	



TEST NUMBER: P231833

CATALOG NUMBER: 24GR-LD5-150-A125-UNV-L935-CD2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5708.3	5708.3	5708.3	5708.3	5708.3
2.5°	5724.7	5704.3	5714.5	5708.3	5706.3
5°	5706.3	5698.1	5694.1	5685.9	5704.3
7.5°	5669.7	5663.6	5665.6	5667.6	5679.9
10°	5633.0	5622.8	5624.8	5628.9	5635.0
12.5°	5575.9	5569.8	5571.8	5575.9	5590.2
15°	5498.5	5508.7	5508.7	5502.6	5522.9
17.5°	5421.0	5419.0	5429.1	5410.8	5439.3
20°	5313.0	5315.0	5313.0	5315.0	5333.4
22.5°	5190.7	5200.9	5194.8	5194.8	5215.2
25°	5066.4	5060.3	5056.2	5046.0	5060.3
27.5°	4917.6	4905.4	4895.2	4874.8	4885.0
30°	4728.1	4730.2	4703.6	4685.3	4681.2
32.5°	4516.1	4516.1	4491.7	4477.5	4489.6
35°	4296.1	4275.7	4283.8	4230.8	4267.5
37.5°	4057.6	4025.0	4006.6	3988.3	4000.5
40°	3784.5	3741.7	3715.3	3678.5	3698.9
42.5°	3497.2	3444.2	3411.6	3385.0	3393.2
45°	3195.6	3140.5	3107.9	3079.4	3050.8
47.5°	2877.6	2843.0	2826.7	2790.0	2757.4
50°	2567.8	2555.6	2516.9	2486.3	2419.1
52.5°	2284.5	2274.3	2213.2	2162.3	2076.7
55°	2038.0	1999.3	1899.4	1850.4	1826.1
57.5°	1787.3	1724.1	1603.9	1597.7	1614.1
60°	1546.8	1469.4	1324.6	1357.3	1420.4
62.5°	1328.7	1212.6	1074.0	1151.5	1226.9
65°	1129.1	1002.7	868.2	970.1	1061.8
67.5°	964.0	837.6	699.0	835.6	941.5
70°	833.5	705.2	574.7	731.6	831.5
72.5°	725.6	609.4	501.3	650.1	754.0
75°	635.9	531.9	468.8	578.8	668.4
77.5°	546.2	462.7	448.4	515.6	570.6
80°	444.3	405.5	409.6	452.5	472.8
82.5°	332.2	334.2	344.4	379.1	370.9
85°	232.3	250.7	244.5	281.3	262.9
87.5°	128.4	140.6	132.4	161.0	144.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)