

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: P231826

Luminaire Tested: **24GR-LD5-120-A125-UNV-L940-CD2-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P231826  
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-L940-CD2-U  
Description: METALUX 2X4 GRLED TROFFER  
WITH A125 LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10563.4 lumens  
Efficiency: N/A  
Efficacy: 117.2 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

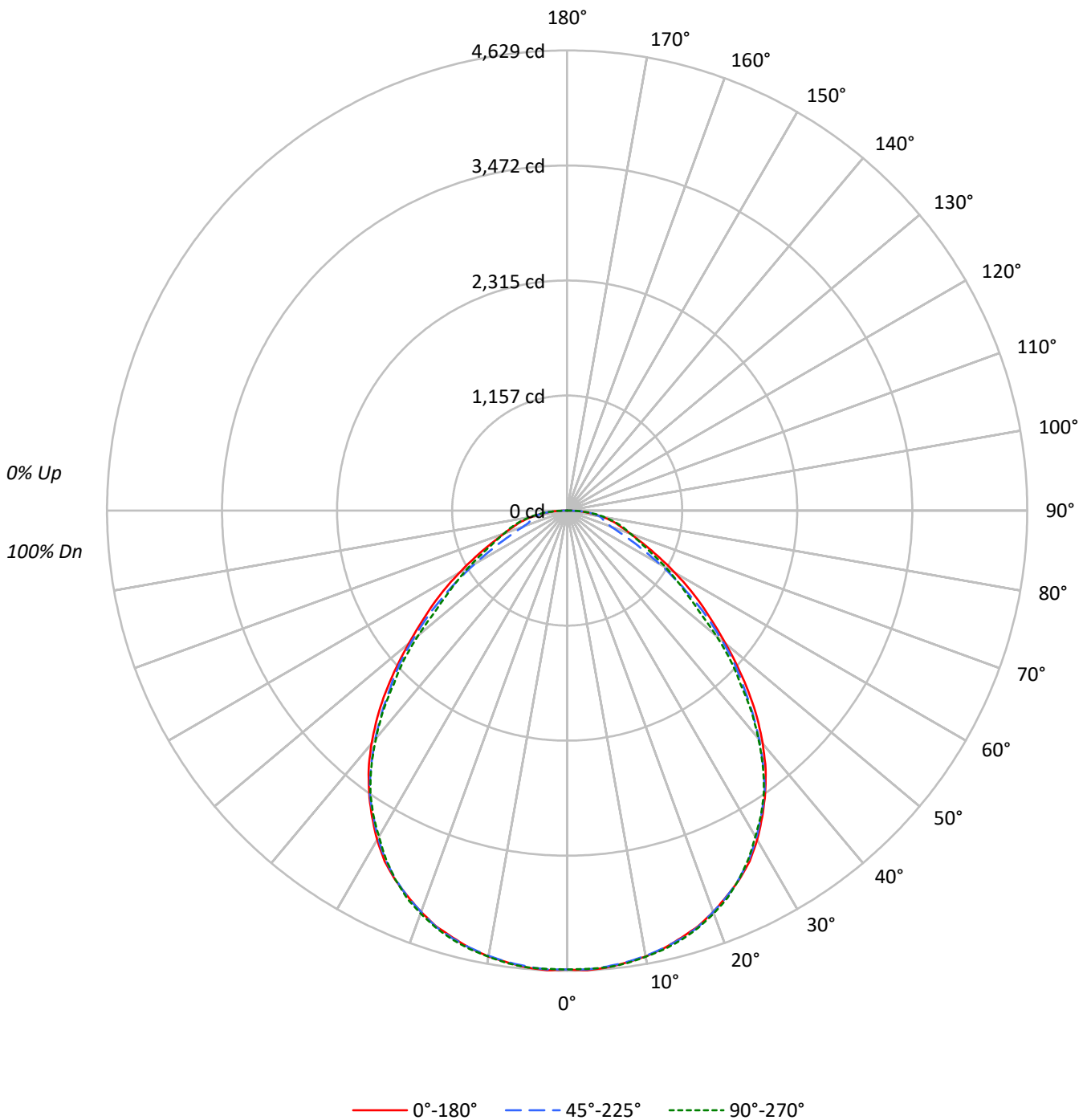
Input Watts (W): 90.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	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	47	72	60	52	46	58	51	46	57	50	46	55	50	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°	7070	7070	7070
5°	7094	7079	7092
10°	7084	7074	7087
15°	7050	7063	7081
20°	7002	7002	7029
25°	6923	6909	6915
30°	6762	6727	6695
35°	6495	6477	6452
40°	6119	6007	5980
45°	5597	5443	5343
50°	4948	4849	4661
55°	4400	4101	3943
60°	3832	3281	3518
65°	3309	2544	3111
70°	3018	2081	3011
75°	3043	2243	3199
80°	3168	2922	3373
85°	3300	3474	3736



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	437.9	4.1
10°-20°	1255.8	11.9
20°-30°	1879.7	17.8
30°-40°	2147.9	20.3
40°-50°	1941.9	18.4
50°-60°	1397.1	13.2
60°-70°	809.9	7.7
70°-80°	480.5	4.5
80°-90°	212.8	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°	3573.3	33.8
0°-40°	5721.2	54.2
0°-60°	9060.2	85.8
0°-90°	10563.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10563.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4616	4616	4616	4616	4616	
5°	4614	4608	4604	4598	4612	438
15°	4446	4454	4454	4449	4466	1255
25°	4097	4092	4088	4080	4092	1883
35°	3474	3457	3464	3421	3451	2166
45°	2584	2539	2513	2490	2467	1985
55°	1648	1617	1536	1496	1476	1474
65°	913	811	702	784	858	922
75°	514	430	379	468	540	543
85°	188	203	198	227	213	201
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4615.8	4615.8	4615.8	4615.8	4615.8
2.5°	4629.0	4612.5	4620.8	4615.8	4614.2
5°	4614.2	4607.6	4604.3	4597.7	4612.5
7.5°	4584.5	4579.6	4581.2	4582.9	4592.7
10°	4554.8	4546.6	4548.3	4551.6	4556.5
12.5°	4508.7	4503.7	4505.5	4508.7	4520.2
15°	4446.1	4454.4	4454.4	4449.4	4465.9
17.5°	4383.5	4381.8	4390.0	4375.2	4398.3
20°	4296.1	4297.8	4296.1	4297.8	4312.6
22.5°	4197.2	4205.5	4200.6	4200.6	4217.0
25°	4096.7	4091.8	4088.5	4080.3	4091.8
27.5°	3976.5	3966.6	3958.3	3941.8	3950.1
30°	3823.2	3824.8	3803.4	3788.6	3785.3
32.5°	3651.8	3651.8	3632.0	3620.5	3630.4
35°	3473.8	3457.4	3463.9	3421.1	3450.8
37.5°	3281.0	3254.7	3239.8	3225.0	3234.9
40°	3060.2	3025.6	3004.2	2974.5	2991.0
42.5°	2827.9	2785.0	2758.6	2737.2	2743.8
45°	2584.0	2539.4	2513.1	2490.0	2466.9
47.5°	2326.9	2298.9	2285.7	2256.0	2229.6
50°	2076.4	2066.5	2035.2	2010.5	1956.1
52.5°	1847.3	1839.1	1789.7	1748.5	1679.2
55°	1647.9	1616.6	1535.9	1496.3	1476.5
57.5°	1445.2	1394.1	1296.9	1292.0	1305.1
60°	1250.8	1188.2	1071.1	1097.5	1148.6
62.5°	1074.5	980.5	868.4	931.0	992.0
65°	913.0	810.8	702.0	784.4	858.5
67.5°	779.5	677.3	565.3	675.6	761.4
70°	674.0	570.2	464.7	591.6	672.3
72.5°	586.7	492.7	405.4	525.7	609.7
75°	514.2	430.1	379.0	468.0	540.5
77.5°	441.6	374.1	362.6	416.9	461.4
80°	359.2	327.9	331.3	365.8	382.4
82.5°	268.6	270.3	278.5	306.5	299.9
85°	187.8	202.7	197.7	227.4	212.6
87.5°	103.8	113.7	107.2	130.2	117.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)