

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: P475772

Luminaire Tested: **24GR-LD5-120-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475772  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-120-A125-UNV-L830-CD1-U  
Description: GR 2'X4' LED TROFFER w/ A125 LENS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11647.1 lumens  
Efficiency: N/A  
Efficacy: 143.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

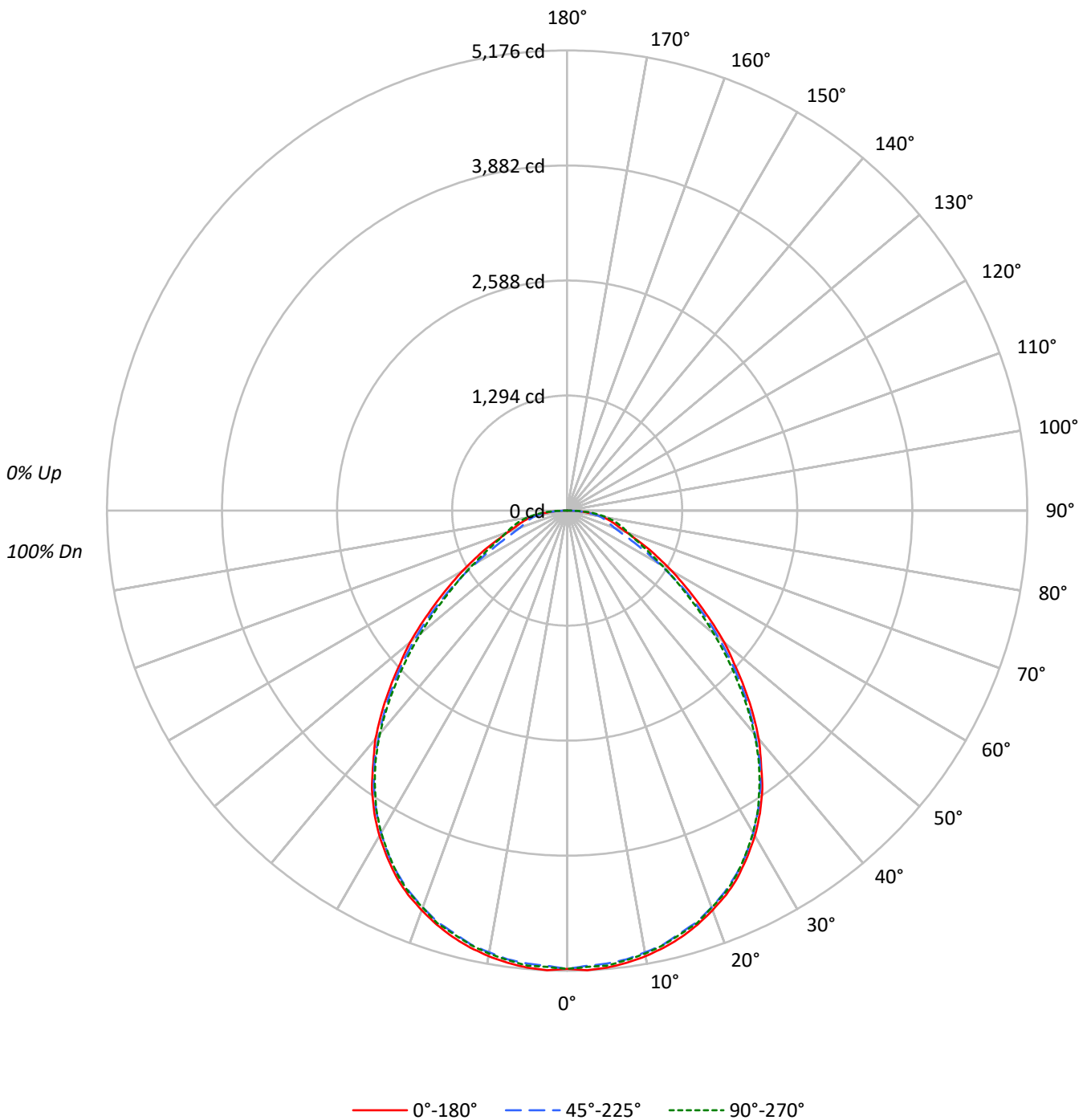
Input Watts (W): 81.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	78	76	73
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	63
4	86	74	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	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6936	6936	6936
5°	6969	6908	6938
10°	6953	6894	6912
15°	6919	6852	6868
20°	6848	6801	6804
25°	6750	6695	6705
30°	6563	6504	6500
35°	6287	6225	6194
40°	5891	5776	5752
45°	5363	5255	5155
50°	4828	4657	4505
55°	4189	3963	3844
60°	3659	3194	3305
65°	3166	2538	2938
70°	2792	2225	2869
75°	2803	2420	3139
80°	3071	2875	3553
85°	3237	3131	4074



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	487.2	4.2
10°-20°	1392.1	12.0
20°-30°	2075.6	17.8
30°-40°	2359.5	20.3
40°-50°	2126.4	18.3
50°-60°	1531.7	13.2
60°-70°	890.9	7.6
70°-80°	545.1	4.7
80°-90°	238.6	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°	3954.9	34.0
0°-40°	6314.4	54.2
0°-60°	9972.5	85.6
0°-90°	11647.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11647.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5155	5155	5155	5155	5155	
5°	5160	5124	5115	5125	5137	490
15°	4967	4940	4919	4927	4930	1400
25°	4547	4519	4510	4503	4517	2089
35°	3828	3801	3790	3768	3771	2382
45°	2818	2786	2762	2719	2709	2174
55°	1786	1743	1689	1672	1638	1610
65°	994	894	797	860	923	995
75°	539	488	466	530	604	574
85°	210	207	203	275	264	222
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5155.0	5155.0	5155.0	5155.0	5155.0
2.5°	5175.8	5148.1	5125.1	5126.2	5137.8
5°	5159.7	5123.9	5114.7	5125.1	5136.6
7.5°	5130.8	5097.4	5091.7	5085.9	5099.7
10°	5089.4	5066.3	5045.6	5051.3	5059.4
12.5°	5034.1	5014.5	4999.5	4988.0	5005.3
15°	4967.2	4939.6	4918.8	4926.9	4930.4
17.5°	4883.1	4856.6	4850.9	4846.2	4863.5
20°	4782.9	4766.7	4749.5	4754.1	4751.8
22.5°	4676.9	4652.7	4638.8	4631.9	4650.4
25°	4546.7	4519.0	4509.8	4502.9	4516.7
27.5°	4387.7	4372.7	4360.0	4350.8	4351.9
30°	4224.0	4209.1	4186.0	4179.1	4183.7
32.5°	4036.2	4019.0	3998.2	3977.5	3992.5
35°	3827.7	3801.2	3789.7	3767.8	3771.2
37.5°	3581.1	3569.6	3559.2	3530.4	3539.6
40°	3354.1	3323.0	3288.4	3271.2	3274.6
42.5°	3091.4	3059.2	3031.5	3007.3	2995.8
45°	2818.3	2786.1	2761.9	2719.2	2708.9
47.5°	2546.4	2516.5	2490.0	2456.5	2426.6
50°	2306.7	2251.4	2224.9	2190.4	2152.4
52.5°	2037.1	2004.9	1953.0	1924.2	1889.6
55°	1785.9	1743.3	1689.2	1671.9	1638.5
57.5°	1560.1	1514.0	1434.5	1427.6	1426.5
60°	1359.6	1297.4	1186.8	1194.9	1228.3
62.5°	1164.9	1076.2	975.9	1011.7	1061.2
65°	994.4	894.1	797.3	859.6	922.9
67.5°	830.8	740.9	659.1	742.0	808.9
70°	709.8	634.9	565.7	654.5	729.4
72.5°	608.4	550.8	505.8	586.5	667.1
75°	539.2	488.5	465.5	530.0	603.8
77.5°	474.7	429.8	422.9	480.5	534.6
80°	396.4	365.3	371.0	429.8	458.6
82.5°	301.9	292.7	293.8	367.6	373.3
85°	209.7	207.4	202.8	275.4	263.9
87.5°	106.0	108.3	107.2	156.7	140.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)