

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: P475786

Luminaire Tested: **24GR-LD5-100-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475786
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-100-A125-UNV-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ A125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10084.5 lumens
Efficiency: N/A
Efficacy: 150.3 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

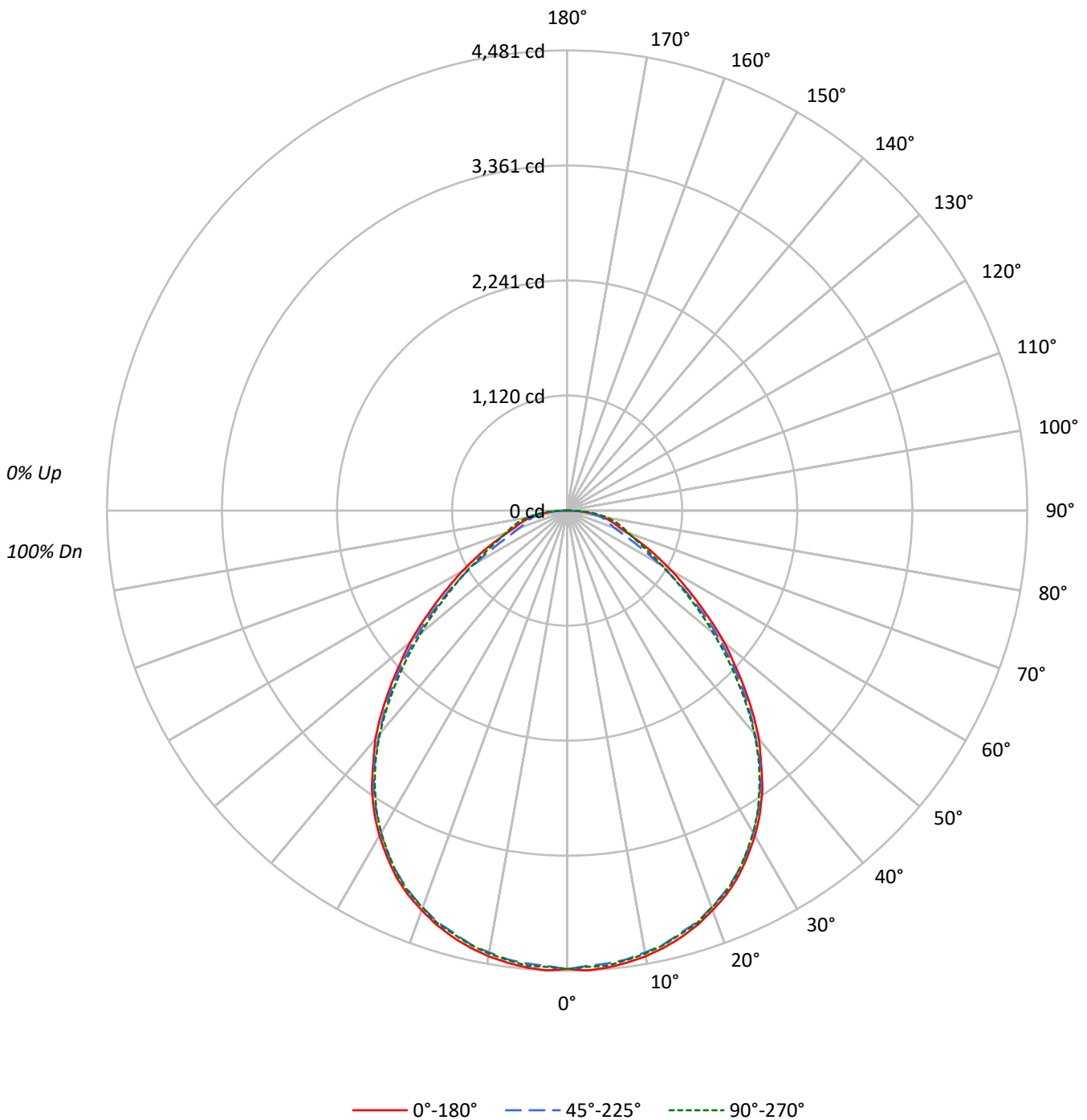
Input Watts (W): 67.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6006	6006	6006
5°	6034	5981	6007
10°	6020	5969	5985
15°	5991	5932	5946
20°	5930	5888	5891
25°	5844	5797	5806
30°	5682	5631	5628
35°	5444	5389	5363
40°	5101	5001	4980
45°	4643	4550	4463
50°	4181	4032	3901
55°	3627	3431	3328
60°	3168	2765	2862
65°	2741	2198	2544
70°	2417	1927	2484
75°	2427	2095	2718
80°	2659	2489	3077
85°	2803	2711	3528



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.8	4.2
10°-20°	1205.4	12.0
20°-30°	1797.1	17.8
30°-40°	2042.9	20.3
40°-50°	1841.2	18.3
50°-60°	1326.2	13.2
60°-70°	771.4	7.6
70°-80°	472.0	4.7
80°-90°	206.6	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°	3424.3	34.0
0°-40°	5467.3	54.2
0°-60°	8634.6	85.6
0°-90°	10084.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10084.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4464	4464	4464	4464	4464	
5°	4467	4436	4428	4438	4448	424
15°	4301	4277	4259	4266	4269	1212
25°	3937	3913	3905	3899	3911	1808
35°	3314	3291	3281	3262	3265	2062
45°	2440	2412	2391	2354	2346	1882
55°	1546	1509	1462	1448	1419	1394
65°	861	774	690	744	799	861
75°	467	423	403	459	523	497
85°	182	180	176	238	228	192
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4463.5	4463.5	4463.5	4463.5	4463.5
2.5°	4481.4	4457.5	4437.5	4438.5	4448.5
5°	4467.4	4436.5	4428.5	4437.5	4447.5
7.5°	4442.5	4413.6	4408.6	4403.6	4415.6
10°	4406.6	4386.6	4368.7	4373.7	4380.7
12.5°	4358.7	4341.7	4328.8	4318.8	4333.8
15°	4300.8	4276.9	4258.9	4265.9	4268.9
17.5°	4228.0	4205.1	4200.1	4196.1	4211.1
20°	4141.2	4127.2	4112.3	4116.3	4114.3
22.5°	4049.4	4028.5	4016.5	4010.5	4026.5
25°	3936.7	3912.8	3904.8	3898.8	3910.8
27.5°	3799.0	3786.1	3775.1	3767.1	3768.1
30°	3657.4	3644.4	3624.4	3618.5	3622.4
32.5°	3494.7	3479.8	3461.8	3443.9	3456.8
35°	3314.2	3291.2	3281.2	3262.3	3265.3
37.5°	3100.7	3090.7	3081.7	3056.8	3064.8
40°	2904.1	2877.2	2847.3	2832.3	2835.3
42.5°	2676.7	2648.7	2624.8	2603.8	2593.9
45°	2440.2	2412.3	2391.4	2354.4	2345.5
47.5°	2204.8	2178.9	2155.9	2127.0	2101.0
50°	1997.3	1949.4	1926.4	1896.5	1863.6
52.5°	1763.8	1735.9	1691.0	1666.1	1636.1
55°	1546.3	1509.4	1462.5	1447.6	1418.6
57.5°	1350.8	1310.9	1242.1	1236.1	1235.1
60°	1177.2	1123.3	1027.6	1034.6	1063.5
62.5°	1008.6	931.8	845.0	875.9	918.8
65°	861.0	774.2	690.4	744.2	799.1
67.5°	719.3	641.5	570.7	642.5	700.3
70°	614.5	549.7	489.8	566.7	631.5
72.5°	526.8	476.9	438.0	507.8	577.6
75°	466.9	423.0	403.0	458.9	522.8
77.5°	411.0	372.1	366.1	416.0	462.9
80°	343.2	316.3	321.2	372.1	397.1
82.5°	261.4	253.4	254.4	318.2	323.2
85°	181.6	179.6	175.6	238.4	228.5
87.5°	91.8	93.8	92.8	135.7	121.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)