

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: P475787

Luminaire Tested: **24GR-LD5-120-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475787
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-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: 12069.5 lumens
Efficiency: N/A
Efficacy: 148.3 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

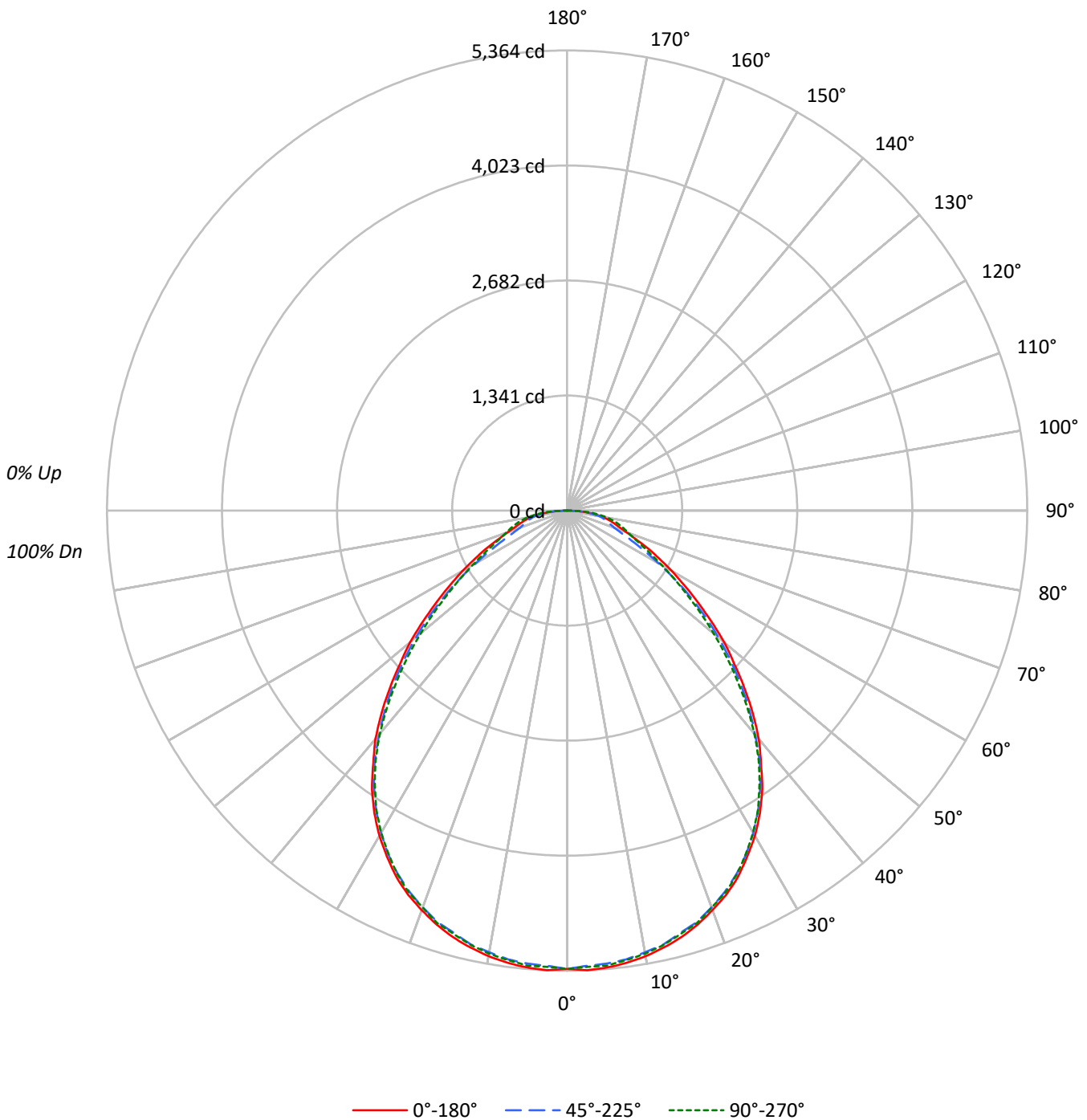
Input Watts (W): 81.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P475787

CATALOG NUMBER: 24GR-LD5-120-A125-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P475787

CATALOG NUMBER: 24GR-LD5-120-A125-UNV-L835-CD1-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	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°	7188	7188	7188
5°	7222	7159	7189
10°	7206	7144	7163
15°	7170	7100	7117
20°	7097	7047	7051
25°	6995	6938	6949
30°	6801	6739	6736
35°	6515	6450	6419
40°	6105	5985	5960
45°	5557	5446	5341
50°	5004	4826	4669
55°	4341	4106	3983
60°	3791	3309	3425
65°	3280	2631	3045
70°	2893	2306	2973
75°	2905	2508	3253
80°	3182	2979	3682
85°	3355	3243	4221



TEST NUMBER: P475787

CATALOG NUMBER: 24GR-LD5-120-A125-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.9	4.2
10°-20°	1442.6	12.0
20°-30°	2150.8	17.8
30°-40°	2445.1	20.3
40°-50°	2203.5	18.3
50°-60°	1587.2	13.2
60°-70°	923.2	7.6
70°-80°	564.9	4.7
80°-90°	247.2	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°	4098.3	34.0
0°-40°	6543.4	54.2
0°-60°	10334.1	85.6
0°-90°	12069.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12069.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5342	5342	5342	5342	5342	
5°	5347	5310	5300	5311	5323	508
15°	5147	5119	5097	5106	5109	1451
25°	4712	4683	4673	4666	4680	2164
35°	3966	3939	3927	3904	3908	2468
45°	2921	2887	2862	2818	2807	2253
55°	1851	1806	1750	1732	1698	1669
65°	1030	927	826	891	956	1031
75°	559	506	482	549	626	595
85°	217	215	210	285	273	230
90°	0	0	0	0	0	



TEST NUMBER: P475787

CATALOG NUMBER: 24GR-LD5-120-A125-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5342.0	5342.0	5342.0	5342.0	5342.0
2.5°	5363.5	5334.9	5311.0	5312.2	5324.1
5°	5346.8	5309.8	5300.2	5311.0	5322.9
7.5°	5316.9	5282.3	5276.3	5270.4	5284.7
10°	5274.0	5250.1	5228.6	5234.6	5242.9
12.5°	5216.6	5196.3	5180.8	5168.9	5186.8
15°	5147.4	5118.7	5097.2	5105.6	5109.2
17.5°	5060.2	5032.8	5026.8	5022.0	5039.9
20°	4956.3	4939.6	4921.7	4926.5	4924.1
22.5°	4846.5	4821.4	4807.1	4799.9	4819.0
25°	4711.6	4682.9	4673.4	4666.2	4680.5
27.5°	4546.8	4531.3	4518.1	4508.6	4509.8
30°	4377.3	4361.7	4337.8	4330.7	4335.5
32.5°	4182.6	4164.7	4143.2	4121.7	4137.3
35°	3966.5	3939.0	3927.1	3904.4	3908.0
37.5°	3711.0	3699.1	3688.3	3658.5	3668.0
40°	3475.8	3443.5	3407.7	3389.8	3393.4
42.5°	3203.5	3170.1	3141.4	3116.4	3104.4
45°	2920.6	2887.1	2862.0	2817.9	2807.1
47.5°	2638.8	2607.7	2580.3	2545.6	2514.6
50°	2390.4	2333.1	2305.6	2269.8	2230.4
52.5°	2111.0	2077.6	2023.9	1994.0	1958.2
55°	1850.7	1806.5	1750.4	1732.5	1697.9
57.5°	1616.7	1568.9	1486.5	1479.4	1478.2
60°	1408.9	1344.5	1229.8	1238.2	1272.8
62.5°	1207.1	1115.2	1011.3	1048.3	1099.7
65°	1030.4	926.6	826.3	890.7	956.4
67.5°	860.9	767.8	683.0	768.9	838.2
70°	735.5	657.9	586.3	678.2	755.8
72.5°	630.4	570.7	524.2	607.8	691.3
75°	558.8	506.3	482.4	549.2	625.7
77.5°	491.9	445.4	438.2	497.9	554.0
80°	410.7	378.5	384.5	445.4	475.2
82.5°	312.8	303.3	304.5	380.9	386.9
85°	217.3	214.9	210.1	285.4	273.4
87.5°	109.8	112.2	111.0	162.4	145.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)