

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: P475727

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

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475727
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-120-A-UNV-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ A LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11660.5 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

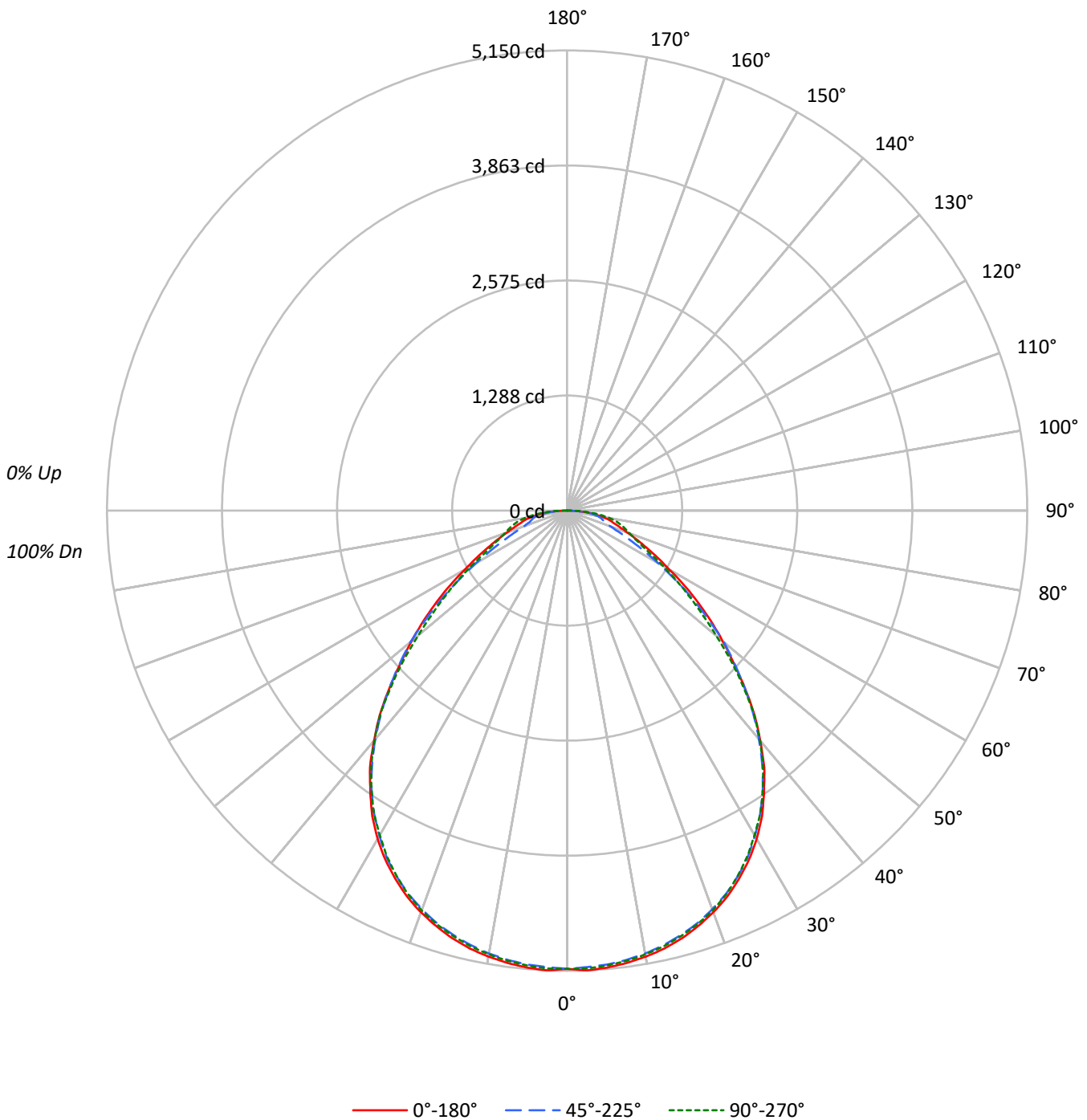
Input Watts (W): 81.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	92	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	74	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	58	56
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	74	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	42	53	46	41	52	46	41	51	45	41	39
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	45	39	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°	6901	6901	6901
5°	6935	6888	6904
10°	6924	6877	6891
15°	6904	6850	6866
20°	6850	6801	6819
25°	6755	6705	6700
30°	6591	6530	6514
35°	6308	6269	6269
40°	5903	5868	5892
45°	5359	5350	5307
50°	4754	4790	4554
55°	4177	3994	3900
60°	3556	3154	3318
65°	3107	2453	2928
70°	2809	2019	2922
75°	2811	2155	3265
80°	3095	2651	3736
85°	3191	2978	4077



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.6	4.2
10°-20°	1390.3	11.9
20°-30°	2079.8	17.8
30°-40°	2380.0	20.4
40°-50°	2156.4	18.5
50°-60°	1526.7	13.1
60°-70°	881.9	7.6
70°-80°	534.7	4.6
80°-90°	225.0	1.9
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°	3955.8	33.9
0°-40°	6335.8	54.3
0°-60°	10018.9	85.9
0°-90°	11660.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11660.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5129	5129	5129	5129	5129	
5°	5134	5116	5100	5099	5112	488
15°	4956	4937	4917	4917	4929	1398
25°	4550	4532	4517	4513	4513	2093
35°	3840	3823	3816	3811	3816	2396
45°	2816	2811	2812	2791	2789	2170
55°	1781	1721	1703	1652	1662	1596
65°	976	875	770	882	920	981
75°	541	484	414	533	628	579
85°	207	186	193	247	264	222
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5128.7	5128.7	5128.7	5128.7	5128.7
2.5°	5150.5	5131.0	5113.8	5116.1	5128.7
5°	5134.4	5116.1	5100.0	5098.8	5111.5
7.5°	5106.9	5090.8	5072.4	5072.4	5082.8
10°	5067.8	5051.8	5033.4	5032.2	5043.7
12.5°	5021.9	5001.2	4981.7	4981.7	4994.3
15°	4956.5	4936.9	4917.4	4917.4	4928.9
17.5°	4876.1	4858.9	4842.8	4843.9	4853.1
20°	4784.2	4767.0	4749.8	4752.1	4762.4
22.5°	4678.6	4657.9	4644.2	4643.0	4649.9
25°	4550.0	4531.7	4516.7	4513.3	4513.3
27.5°	4406.5	4387.0	4376.7	4360.6	4365.2
30°	4242.3	4221.7	4203.3	4194.1	4193.0
32.5°	4057.5	4036.8	4020.7	4019.6	4024.2
35°	3840.5	3823.3	3816.4	3810.6	3816.4
37.5°	3625.8	3593.6	3587.9	3586.7	3601.7
40°	3360.6	3349.1	3341.0	3335.3	3354.8
42.5°	3105.7	3082.7	3085.0	3063.2	3097.6
45°	2816.4	2810.6	2811.8	2791.1	2788.8
47.5°	2529.3	2528.2	2545.4	2488.0	2484.5
50°	2271.0	2259.5	2288.2	2199.8	2175.7
52.5°	2024.1	1992.0	1982.8	1902.4	1902.4
55°	1780.7	1721.0	1702.7	1652.2	1662.5
57.5°	1550.0	1465.0	1427.1	1426.0	1443.2
60°	1321.5	1225.1	1172.2	1213.6	1233.1
62.5°	1140.1	1034.5	954.1	1032.2	1050.5
65°	975.9	874.9	770.4	881.8	919.6
67.5°	834.7	750.9	620.0	765.8	816.3
70°	714.1	639.5	513.2	675.1	742.8
72.5°	618.8	556.8	446.6	602.8	684.3
75°	540.8	484.5	414.5	532.7	628.0
77.5°	478.8	412.2	388.1	466.1	563.7
80°	399.5	338.7	342.1	400.7	482.2
82.5°	307.7	261.8	275.6	331.8	378.9
85°	206.7	186.0	192.9	246.8	264.1
87.5°	102.2	98.7	105.6	144.7	144.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)