

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: P475726

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

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475726
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-100-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: 9742.8 lumens
Efficiency: N/A
Efficacy: 145.2 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

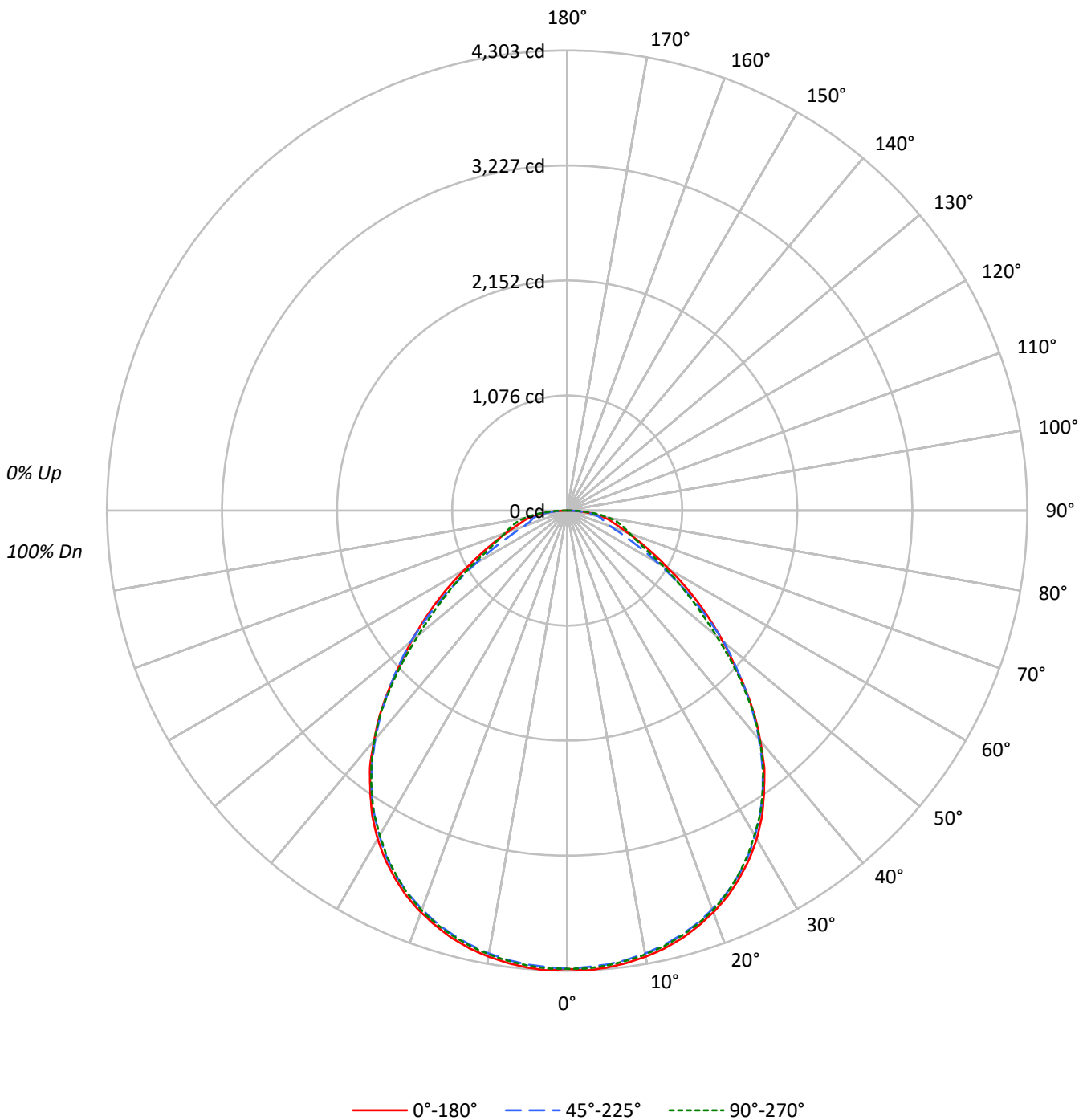
Input Watts (W): 67.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5766	5766	5766
5°	5794	5755	5768
10°	5785	5746	5758
15°	5769	5723	5737
20°	5724	5682	5698
25°	5644	5603	5598
30°	5507	5456	5443
35°	5271	5238	5238
40°	4932	4903	4923
45°	4478	4470	4434
50°	3972	4002	3805
55°	3490	3337	3259
60°	2971	2636	2773
65°	2596	2049	2446
70°	2347	1687	2442
75°	2349	1800	2728
80°	2586	2215	3122
85°	2666	2489	3406



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.8	4.2
10°-20°	1161.7	11.9
20°-30°	1737.8	17.8
30°-40°	1988.6	20.4
40°-50°	1801.7	18.5
50°-60°	1275.6	13.1
60°-70°	736.9	7.6
70°-80°	446.7	4.6
80°-90°	188.0	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°	3305.2	33.9
0°-40°	5293.8	54.3
0°-60°	8371.2	85.9
0°-90°	9742.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9742.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4285	4285	4285	4285	4285	
5°	4290	4275	4261	4260	4271	408
15°	4141	4125	4109	4109	4118	1168
25°	3802	3786	3774	3771	3771	1749
35°	3209	3194	3189	3184	3189	2002
45°	2353	2348	2349	2332	2330	1813
55°	1488	1438	1423	1380	1389	1333
65°	815	731	644	737	768	820
75°	452	405	346	445	525	484
85°	173	155	161	206	221	186
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4285.2	4285.2	4285.2	4285.2	4285.2
2.5°	4303.4	4287.1	4272.7	4274.7	4285.2
5°	4290.0	4274.7	4261.2	4260.3	4270.8
7.5°	4267.0	4253.5	4238.2	4238.2	4246.8
10°	4234.4	4220.9	4205.6	4204.6	4214.2
12.5°	4196.0	4178.7	4162.4	4162.4	4173.0
15°	4141.3	4125.0	4108.7	4108.7	4118.3
17.5°	4074.2	4059.8	4046.3	4047.3	4055.0
20°	3997.4	3983.0	3968.6	3970.6	3979.2
22.5°	3909.2	3891.9	3880.4	3879.4	3885.2
25°	3801.7	3786.4	3773.9	3771.0	3771.0
27.5°	3681.8	3665.5	3656.9	3643.4	3647.3
30°	3544.6	3527.4	3512.0	3504.3	3503.4
32.5°	3390.2	3372.9	3359.5	3358.5	3362.4
35°	3208.9	3194.5	3188.7	3183.9	3188.7
37.5°	3029.5	3002.6	2997.8	2996.9	3009.3
40°	2807.9	2798.3	2791.6	2786.8	2803.1
42.5°	2594.9	2575.7	2577.6	2559.4	2588.2
45°	2353.2	2348.4	2349.3	2332.1	2330.1
47.5°	2113.3	2112.4	2126.8	2078.8	2075.9
50°	1897.5	1887.9	1911.9	1838.0	1817.9
52.5°	1691.3	1664.4	1656.7	1589.6	1589.6
55°	1487.9	1438.0	1422.6	1380.4	1389.1
57.5°	1295.1	1224.1	1192.4	1191.5	1205.8
60°	1104.2	1023.6	979.4	1014.0	1030.3
62.5°	952.6	864.3	797.2	862.4	877.8
65°	815.4	731.0	643.7	736.7	768.4
67.5°	697.4	627.4	518.0	639.9	682.1
70°	596.7	534.3	428.8	564.1	620.7
72.5°	517.1	465.3	373.2	503.6	571.7
75°	451.8	404.8	346.3	445.1	524.7
77.5°	400.0	344.4	324.2	389.5	471.0
80°	333.8	283.0	285.9	334.8	402.9
82.5°	257.1	218.7	230.2	277.2	316.6
85°	172.7	155.4	161.2	206.3	220.6
87.5°	85.4	82.5	88.3	120.9	120.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)