

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: P475606

Luminaire Tested: **24GR-LD5-100-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475606
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-100-F125-UNV-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ F125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10043.7 lumens
Efficiency: N/A
Efficacy: 149.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

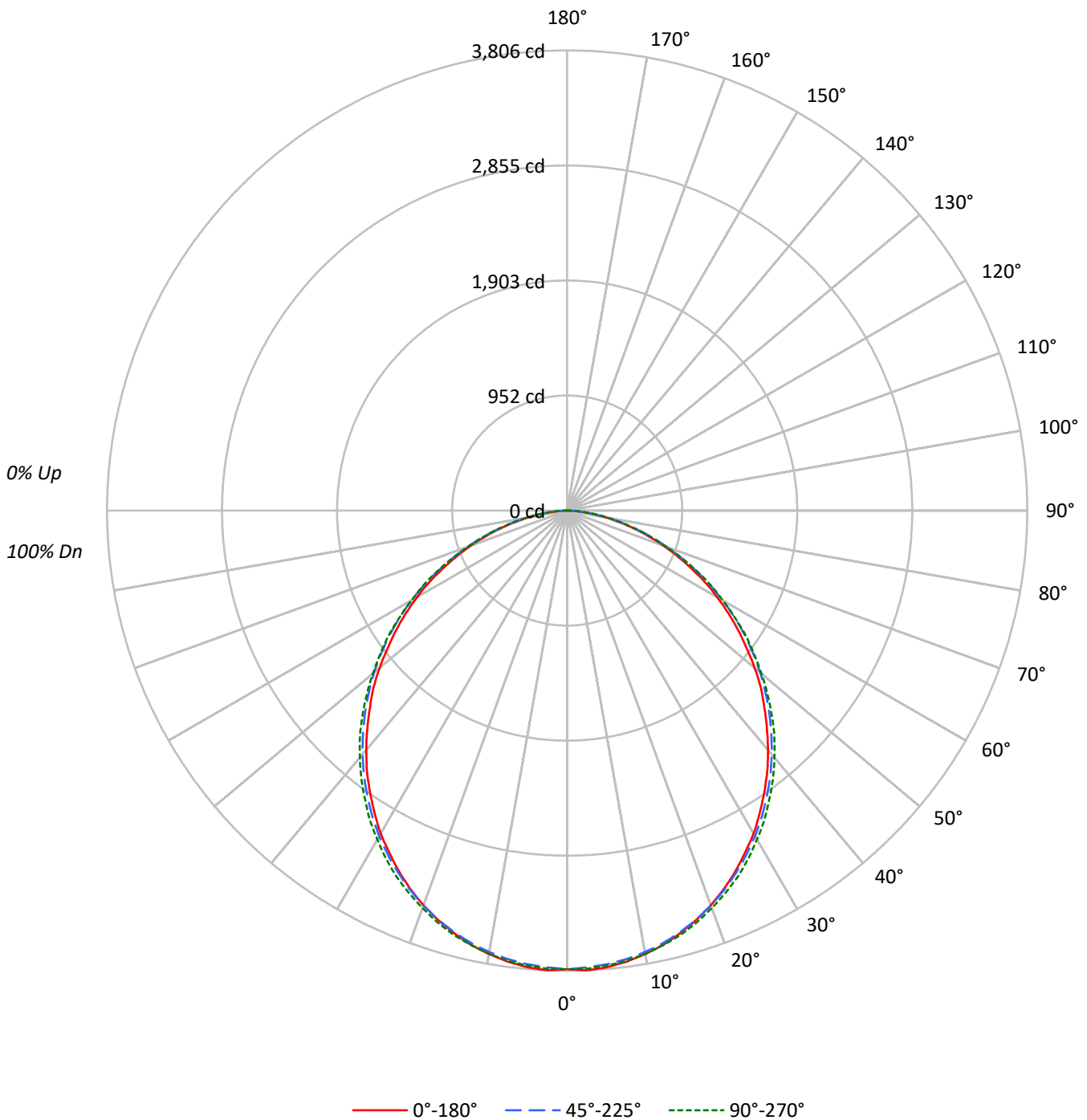
Input Watts (W): 67.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5103	5103	5103
5°	5119	5087	5101
10°	5090	5065	5087
15°	5039	5028	5059
20°	4974	4976	5010
25°	4888	4908	4959
30°	4793	4829	4879
35°	4669	4733	4788
40°	4541	4623	4684
45°	4391	4498	4556
50°	4238	4362	4392
55°	4055	4200	4231
60°	3861	3993	3997
65°	3607	3747	3767
70°	3342	3436	3425
75°	2969	3075	3084
80°	2483	2572	2669
85°	1863	2004	2075



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.4	3.6
10°-20°	1019.6	10.2
20°-30°	1524.2	15.2
30°-40°	1800.8	17.9
40°-50°	1817.9	18.1
50°-60°	1586.4	15.8
60°-70°	1156.6	11.5
70°-80°	623.8	6.2
80°-90°	156.1	1.6
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°	2902.2	28.9
0°-40°	4703.0	46.8
0°-60°	8107.3	80.7
0°-90°	10043.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10043.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3793	3793	3793	3793	3793	
5°	3790	3776	3766	3770	3777	360
15°	3618	3610	3610	3618	3632	1020
25°	3293	3293	3306	3327	3340	1516
35°	2843	2851	2882	2909	2915	1778
45°	2308	2324	2364	2394	2394	1782
55°	1729	1750	1791	1798	1804	1545
65°	1133	1158	1177	1179	1183	1126
75°	571	577	592	594	593	607
85°	121	124	130	136	134	147
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3793.0	3793.0	3793.0	3793.0	3793.0
2.5°	3805.6	3791.9	3781.1	3783.4	3792.5
5°	3790.2	3776.5	3766.3	3769.7	3777.1
7.5°	3762.9	3750.3	3742.4	3745.8	3755.5
10°	3725.3	3715.0	3707.6	3712.8	3723.0
12.5°	3677.5	3667.2	3664.4	3671.8	3680.9
15°	3617.7	3610.3	3609.7	3618.3	3631.9
17.5°	3550.5	3543.1	3547.1	3558.5	3570.4
20°	3474.2	3467.4	3475.3	3490.7	3498.7
22.5°	3387.1	3381.4	3395.6	3411.6	3421.8
25°	3292.6	3293.2	3305.7	3326.7	3340.4
27.5°	3187.8	3191.8	3210.6	3231.1	3244.8
30°	3084.8	3081.4	3108.1	3130.3	3140.6
32.5°	2965.2	2966.9	2998.2	3021.0	3036.4
35°	2842.8	2850.8	2881.5	2909.4	2915.1
37.5°	2719.2	2724.9	2761.9	2789.3	2796.7
40°	2585.4	2595.7	2632.1	2657.8	2666.9
42.5°	2446.0	2459.0	2498.3	2525.1	2537.0
45°	2307.6	2324.1	2364.0	2393.6	2394.1
47.5°	2173.8	2185.8	2224.5	2250.7	2247.8
50°	2024.6	2042.3	2083.8	2099.8	2098.1
52.5°	1872.0	1898.8	1936.9	1949.5	1947.8
55°	1728.6	1749.6	1790.6	1797.5	1803.7
57.5°	1580.0	1598.2	1642.6	1645.4	1644.3
60°	1434.8	1451.3	1483.7	1491.7	1485.4
62.5°	1288.5	1305.0	1334.0	1342.0	1340.8
65°	1133.0	1157.5	1176.9	1179.1	1183.1
67.5°	988.4	1003.8	1022.6	1026.0	1023.1
70°	849.5	862.6	873.4	875.7	870.5
72.5°	706.0	718.0	733.3	736.2	730.5
75°	571.1	576.8	591.6	593.8	593.3
77.5°	440.1	444.7	455.5	464.0	465.2
80°	320.5	322.3	331.9	338.2	344.5
82.5°	212.4	216.9	224.3	230.6	236.3
85°	120.7	123.6	129.8	136.1	134.4
87.5°	46.7	53.0	53.5	59.8	62.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)