

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: P475607

Luminaire Tested: **24GR-LD5-120-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475607
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-120-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: 12020.6 lumens
Efficiency: N/A
Efficacy: 147.7 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

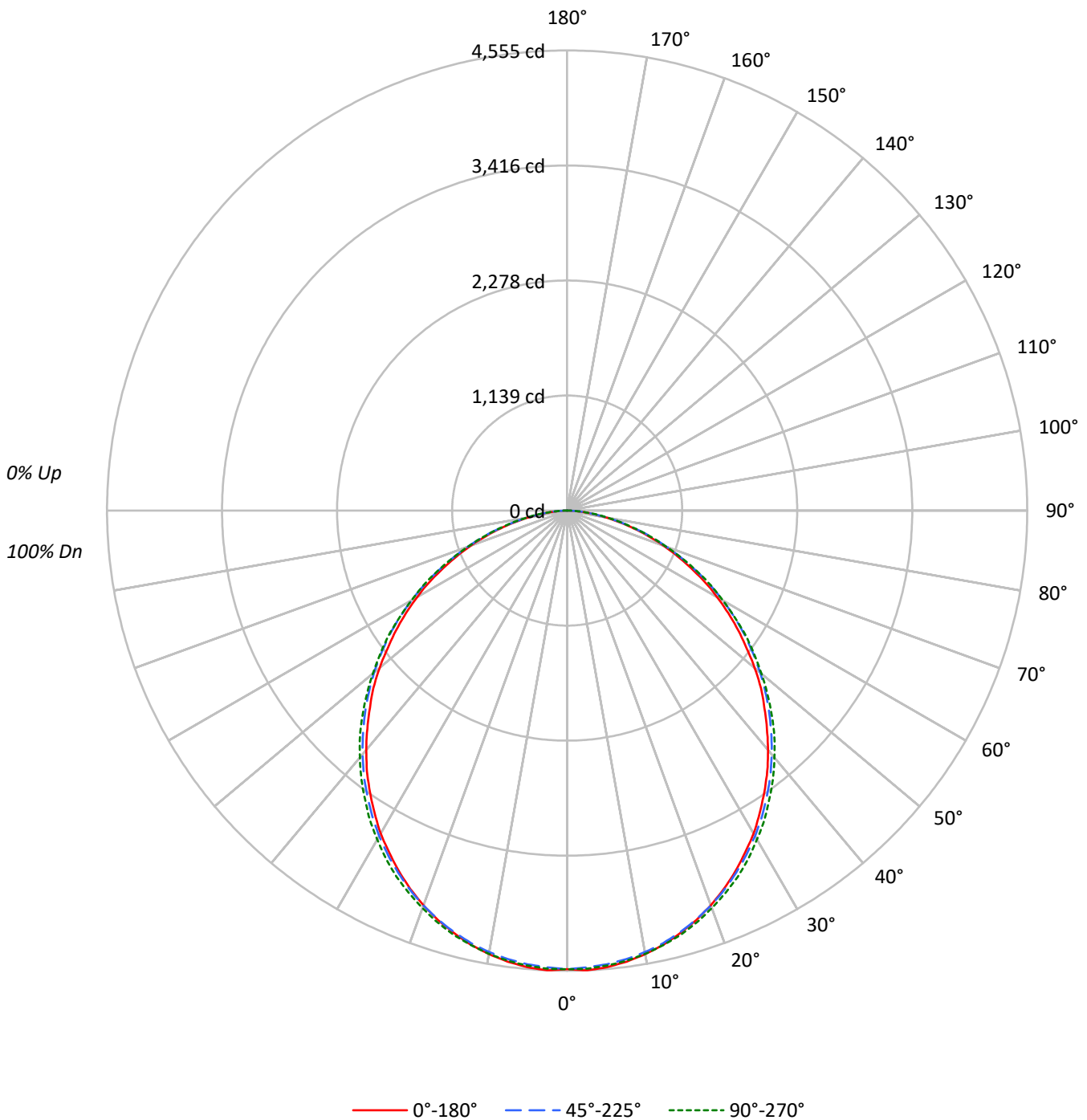
Input Watts (W): 81.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	6108	6108	6108
5°	6127	6088	6106
10°	6092	6063	6088
15°	6031	6018	6055
20°	5954	5956	5996
25°	5850	5873	5935
30°	5736	5779	5840
35°	5588	5665	5731
40°	5435	5533	5606
45°	5255	5384	5452
50°	5072	5220	5256
55°	4853	5027	5064
60°	4621	4779	4784
65°	4317	4484	4508
70°	4000	4112	4099
75°	3553	3681	3691
80°	2972	3078	3195
85°	2231	2399	2482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.9	3.6
10°-20°	1220.3	10.2
20°-30°	1824.2	15.2
30°-40°	2155.2	17.9
40°-50°	2175.7	18.1
50°-60°	1898.7	15.8
60°-70°	1384.2	11.5
70°-80°	746.5	6.2
80°-90°	186.9	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°	3473.5	28.9
0°-40°	5628.7	46.8
0°-60°	9703.1	80.7
0°-90°	12020.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12020.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4540	4540	4540	4540	4540	
5°	4536	4520	4508	4512	4521	430
15°	4330	4321	4320	4330	4347	1221
25°	3941	3941	3956	3982	3998	1814
35°	3402	3412	3449	3482	3489	2128
45°	2762	2782	2829	2865	2865	2132
55°	2069	2094	2143	2151	2159	1849
65°	1356	1385	1408	1411	1416	1347
75°	684	690	708	711	710	726
85°	144	148	155	163	161	176
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4539.6	4539.6	4539.6	4539.6	4539.6
2.5°	4554.6	4538.3	4525.3	4528.1	4539.0
5°	4536.2	4519.9	4507.6	4511.7	4520.6
7.5°	4503.5	4488.5	4479.0	4483.1	4494.7
10°	4458.6	4446.3	4437.4	4443.6	4455.8
12.5°	4401.3	4389.1	4385.6	4394.5	4405.4
15°	4329.8	4320.9	4320.2	4330.4	4346.8
17.5°	4249.4	4240.5	4245.3	4258.9	4273.2
20°	4158.0	4149.9	4159.4	4177.8	4187.4
22.5°	4053.8	4047.0	4064.0	4083.1	4095.4
25°	3940.7	3941.4	3956.3	3981.6	3997.9
27.5°	3815.3	3820.1	3842.5	3867.1	3883.4
30°	3692.0	3687.9	3719.9	3746.5	3758.7
32.5°	3548.9	3550.9	3588.4	3615.6	3634.0
35°	3402.3	3411.9	3448.7	3482.1	3488.9
37.5°	3254.5	3261.3	3305.6	3338.3	3347.2
40°	3094.3	3106.6	3150.2	3180.9	3191.8
42.5°	2927.4	2943.1	2990.1	3022.1	3036.4
45°	2761.8	2781.6	2829.3	2864.7	2865.4
47.5°	2601.7	2616.0	2662.3	2693.7	2690.3
50°	2423.1	2444.3	2494.0	2513.1	2511.0
52.5°	2240.5	2272.5	2318.2	2333.2	2331.2
55°	2068.8	2094.0	2143.1	2151.3	2158.8
57.5°	1891.0	1912.8	1965.9	1969.3	1968.0
60°	1717.2	1736.9	1775.8	1785.3	1777.8
62.5°	1542.1	1561.8	1596.6	1606.1	1604.8
65°	1356.0	1385.3	1408.5	1411.2	1416.0
67.5°	1183.0	1201.4	1223.8	1227.9	1224.5
70°	1016.7	1032.4	1045.3	1048.0	1041.9
72.5°	845.0	859.3	877.7	881.1	874.3
75°	683.5	690.3	708.0	710.7	710.0
77.5°	526.7	532.2	545.1	555.4	556.7
80°	383.6	385.7	397.3	404.8	412.3
82.5°	254.2	259.6	268.5	276.0	282.8
85°	144.5	147.9	155.4	162.9	160.8
87.5°	55.9	63.4	64.1	71.5	74.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)