

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: P475622

Luminaire Tested: **24GR-LD5-120-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475622
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-L840-CD1-U
Description: GR 2'X4' LED TROFFER w/ F125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12249.0 lumens
Efficiency: N/A
Efficacy: 150.5 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

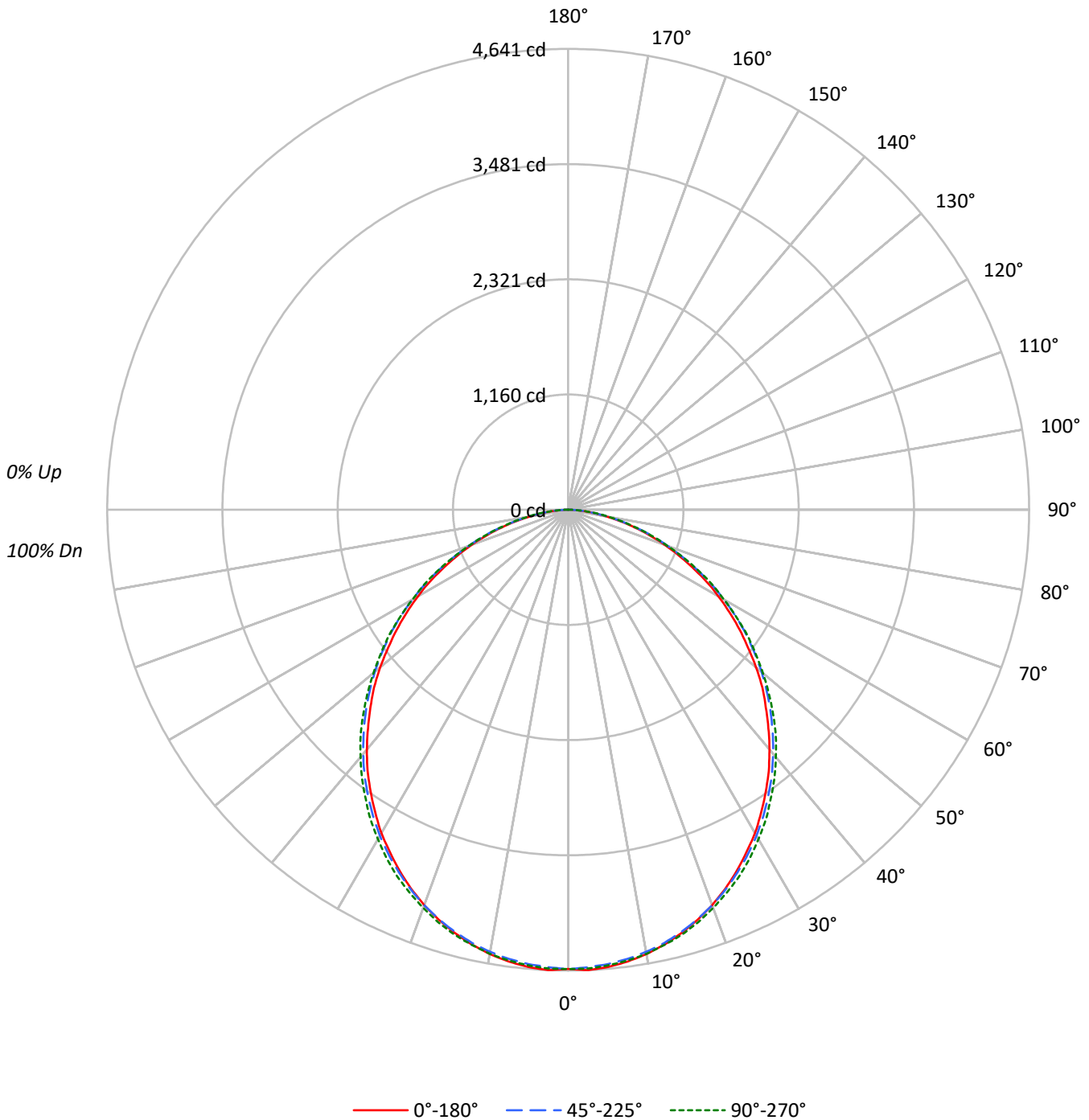
Input Watts (W): 81.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6224	6224	6224
5°	6243	6204	6222
10°	6207	6178	6203
15°	6146	6132	6170
20°	6067	6069	6110
25°	5961	5985	6048
30°	5845	5889	5951
35°	5695	5772	5840
40°	5538	5638	5713
45°	5355	5486	5556
50°	5169	5320	5356
55°	4945	5123	5160
60°	4709	4869	4875
65°	4399	4570	4594
70°	4076	4190	4177
75°	3621	3751	3761
80°	3029	3137	3255
85°	2272	2444	2530



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.1	3.6
10°-20°	1243.5	10.2
20°-30°	1858.9	15.2
30°-40°	2196.2	17.9
40°-50°	2217.0	18.1
50°-60°	1934.8	15.8
60°-70°	1410.5	11.5
70°-80°	760.7	6.2
80°-90°	190.4	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°	3539.4	28.9
0°-40°	5735.6	46.8
0°-60°	9887.4	80.7
0°-90°	12249.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12249.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4626	4626	4626	4626	4626	
5°	4622	4606	4593	4597	4606	439
15°	4412	4403	4402	4413	4429	1244
25°	4016	4016	4032	4057	4074	1849
35°	3467	3477	3514	3548	3555	2169
45°	2814	2834	2883	2919	2920	2173
55°	2108	2134	2184	2192	2200	1884
65°	1382	1412	1435	1438	1443	1373
75°	696	703	722	724	724	740
85°	147	151	158	166	164	179
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4625.9	4625.9	4625.9	4625.9	4625.9
2.5°	4641.2	4624.5	4611.3	4614.1	4625.2
5°	4622.4	4605.8	4593.3	4597.4	4606.5
7.5°	4589.1	4573.8	4564.1	4568.3	4580.1
10°	4543.3	4530.8	4521.7	4528.0	4540.5
12.5°	4484.9	4472.4	4469.0	4478.0	4489.1
15°	4412.0	4403.0	4402.3	4412.7	4429.4
17.5°	4330.1	4321.1	4325.9	4339.8	4354.4
20°	4237.1	4228.7	4238.4	4257.2	4266.9
22.5°	4130.8	4123.9	4141.2	4160.7	4173.2
25°	4015.5	4016.2	4031.5	4057.2	4073.9
27.5°	3887.8	3892.6	3915.6	3940.6	3957.2
30°	3762.1	3757.9	3790.6	3817.7	3830.2
32.5°	3616.3	3618.4	3656.6	3684.3	3703.1
35°	3467.0	3476.7	3514.2	3548.2	3555.2
37.5°	3316.3	3323.3	3368.4	3401.7	3410.8
40°	3153.1	3165.6	3210.1	3241.3	3252.4
42.5°	2983.0	2999.0	3046.9	3079.5	3094.1
45°	2814.3	2834.4	2883.0	2919.1	2919.8
47.5°	2651.1	2665.7	2712.9	2744.8	2741.4
50°	2469.2	2490.7	2541.4	2560.8	2558.8
52.5°	2283.1	2315.7	2362.3	2377.5	2375.4
55°	2108.1	2133.8	2183.8	2192.1	2199.8
57.5°	1926.9	1949.1	2003.3	2006.7	2005.3
60°	1749.8	1770.0	1809.5	1819.3	1811.6
62.5°	1571.4	1591.5	1626.9	1636.6	1635.2
65°	1381.8	1411.7	1435.3	1438.0	1442.9
67.5°	1205.4	1224.2	1247.1	1251.3	1247.8
70°	1036.0	1052.0	1065.2	1067.9	1061.7
72.5°	861.0	875.6	894.3	897.8	890.9
75°	696.5	703.4	721.5	724.2	723.5
77.5°	536.7	542.3	555.5	565.9	567.3
80°	390.9	393.0	404.8	412.5	420.1
82.5°	259.0	264.6	273.6	281.2	288.2
85°	147.2	150.7	158.3	166.0	163.9
87.5°	56.9	64.6	65.3	72.9	75.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)