

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: P475592

Luminaire Tested: **24GR-LD5-120-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475592
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-L830-CD1-U
Description: GR 2'X4' LED TROFFER w/ F125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11599.9 lumens
Efficiency: N/A
Efficacy: 142.5 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

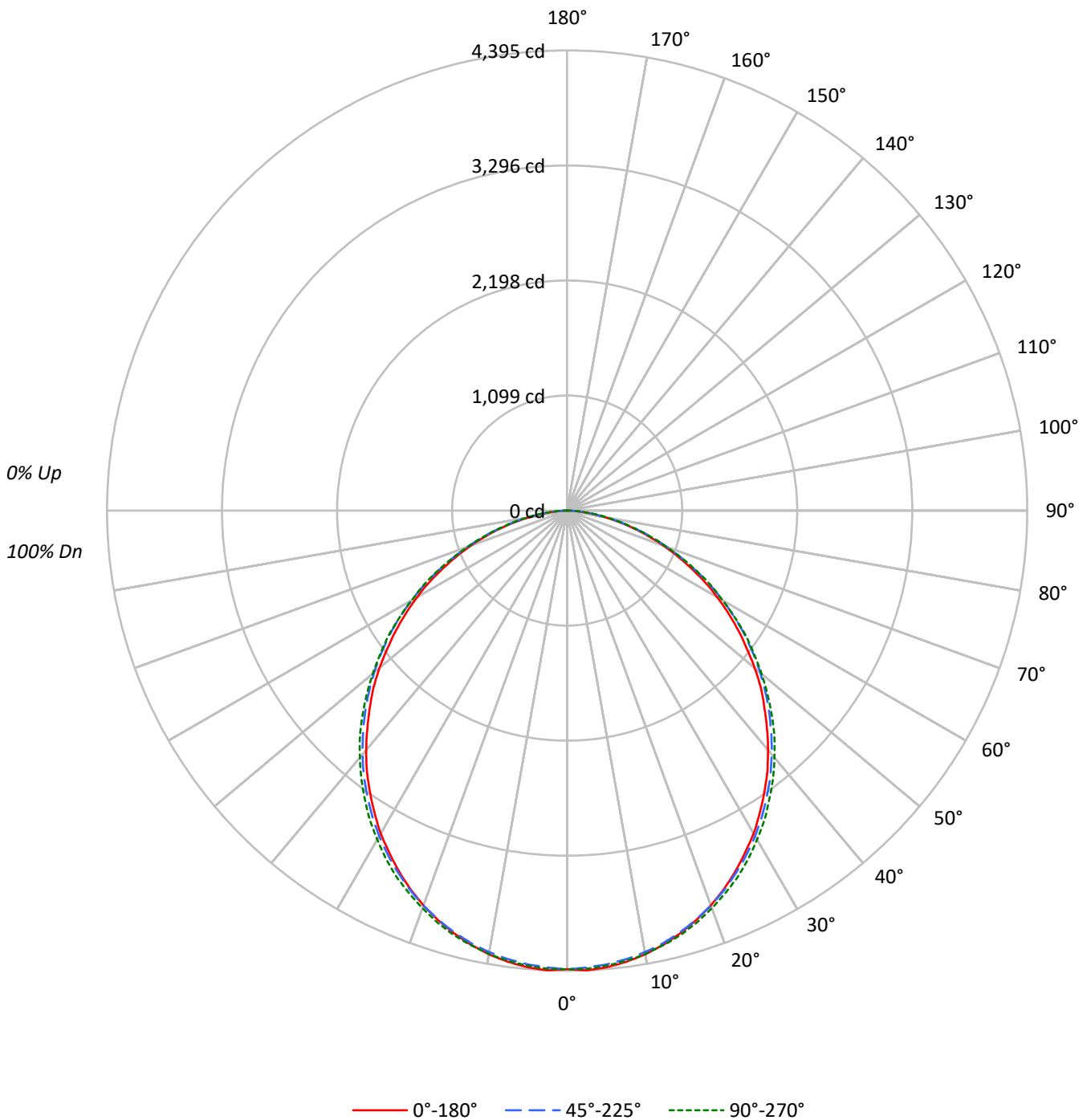
Input Watts (W): 81.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5894	5894	5894
5°	5912	5875	5892
10°	5878	5850	5875
15°	5820	5807	5843
20°	5745	5747	5786
25°	5646	5668	5728
30°	5535	5577	5635
35°	5393	5466	5530
40°	5245	5339	5410
45°	5071	5195	5261
50°	4895	5038	5072
55°	4683	4851	4887
60°	4459	4611	4617
65°	4166	4327	4350
70°	3860	3968	3955
75°	3428	3552	3562
80°	2868	2971	3082
85°	2152	2314	2396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.9	3.6
10°-20°	1177.6	10.2
20°-30°	1760.4	15.2
30°-40°	2079.8	17.9
40°-50°	2099.5	18.1
50°-60°	1832.3	15.8
60°-70°	1335.7	11.5
70°-80°	720.4	6.2
80°-90°	180.3	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°	3351.9	28.9
0°-40°	5431.7	46.8
0°-60°	9363.4	80.7
0°-90°	11599.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11599.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4381	4381	4381	4381	4381	
5°	4378	4362	4350	4354	4362	415
15°	4178	4170	4169	4179	4195	1178
25°	3803	3803	3818	3842	3858	1751
35°	3283	3292	3328	3360	3367	2054
45°	2665	2684	2730	2764	2765	2058
55°	1996	2021	2068	2076	2083	1784
65°	1309	1337	1359	1362	1366	1300
75°	660	666	683	686	685	701
85°	139	143	150	157	155	170
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4380.8	4380.8	4380.8	4380.8	4380.8
2.5°	4395.2	4379.4	4366.9	4369.6	4380.1
5°	4377.5	4361.7	4349.9	4353.8	4362.3
7.5°	4345.9	4331.4	4322.2	4326.2	4337.4
10°	4302.5	4290.7	4282.1	4288.0	4299.9
12.5°	4247.3	4235.4	4232.1	4240.7	4251.2
15°	4178.2	4169.7	4169.0	4178.9	4194.7
17.5°	4100.6	4092.1	4096.7	4109.8	4123.6
20°	4012.5	4004.6	4013.8	4031.6	4040.8
22.5°	3911.9	3905.3	3921.8	3940.2	3952.0
25°	3802.8	3803.4	3817.9	3842.2	3858.0
27.5°	3681.8	3686.4	3708.1	3731.7	3747.5
30°	3562.7	3558.8	3589.7	3615.3	3627.2
32.5°	3424.6	3426.6	3462.8	3489.1	3506.8
35°	3283.3	3292.5	3328.0	3360.2	3366.8
37.5°	3140.6	3147.1	3189.9	3221.5	3230.0
40°	2986.0	2997.9	3040.0	3069.6	3080.1
42.5°	2824.9	2840.1	2885.4	2916.3	2930.2
45°	2665.1	2684.2	2730.2	2764.4	2765.1
47.5°	2510.6	2524.4	2569.1	2599.4	2596.1
50°	2338.3	2358.7	2406.7	2425.1	2423.2
52.5°	2162.1	2193.0	2237.1	2251.5	2249.6
55°	1996.4	2020.7	2068.1	2076.0	2083.2
57.5°	1824.8	1845.8	1897.1	1900.4	1899.1
60°	1657.1	1676.2	1713.6	1722.8	1715.6
62.5°	1488.1	1507.2	1540.7	1549.9	1548.6
65°	1308.6	1336.8	1359.2	1361.8	1366.4
67.5°	1141.5	1159.3	1181.0	1184.9	1181.7
70°	981.1	996.2	1008.7	1011.3	1005.4
72.5°	815.4	829.2	847.0	850.2	843.7
75°	659.5	666.1	683.2	685.8	685.2
77.5°	508.3	513.6	526.1	535.9	537.2
80°	370.2	372.2	383.4	390.6	397.8
82.5°	245.3	250.5	259.1	266.3	272.9
85°	139.4	142.7	149.9	157.2	155.2
87.5°	53.9	61.2	61.8	69.0	71.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)