

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: P475624

Luminaire Tested: **24GR-LD5-150-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475624
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-150-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: 15368.1 lumens
Efficiency: N/A
Efficacy: 148.6 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

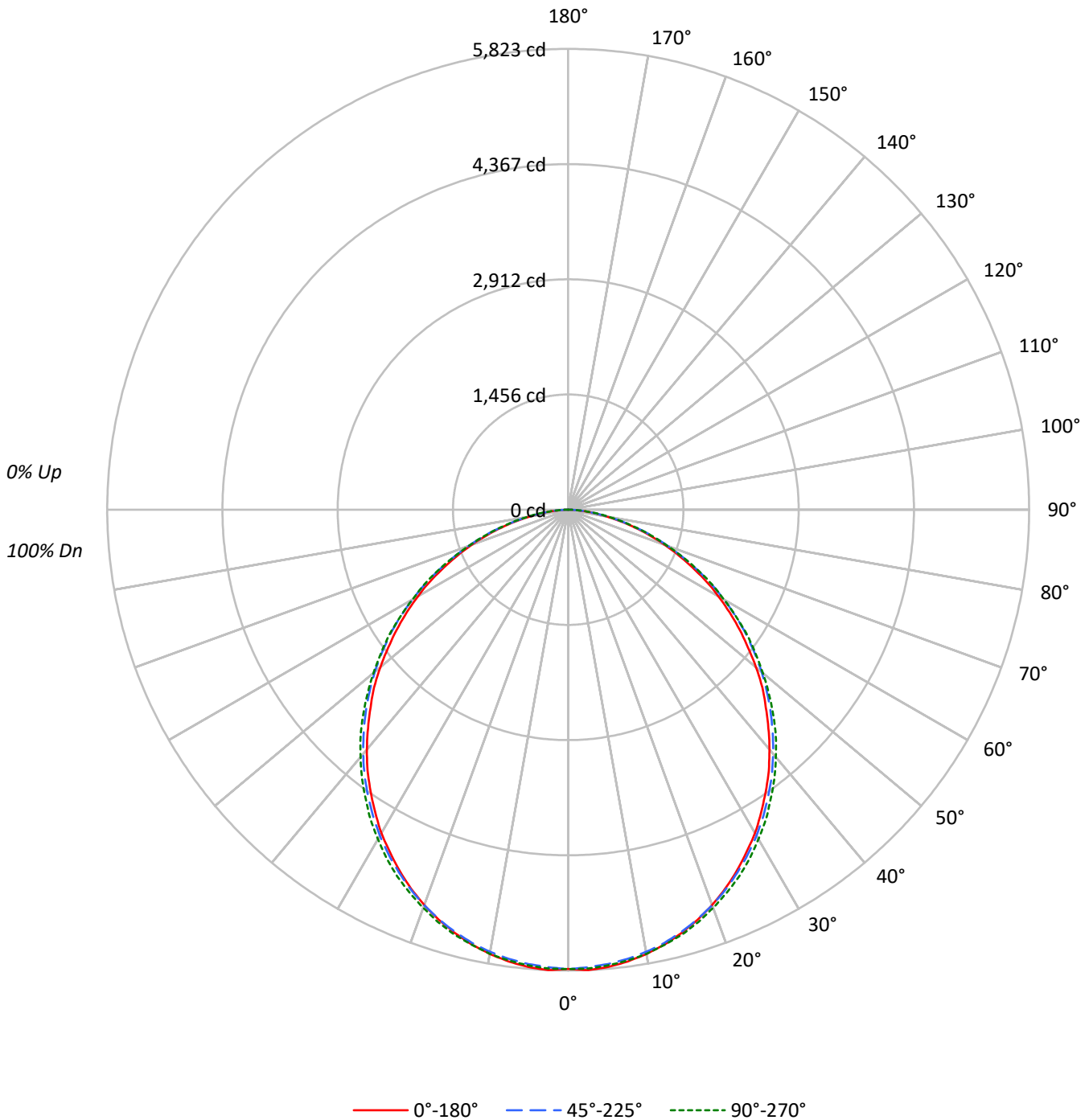
Input Watts (W): 103.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7809	7809	7809
5°	7833	7784	7806
10°	7788	7751	7783
15°	7711	7694	7741
20°	7612	7614	7665
25°	7479	7509	7588
30°	7333	7389	7466
35°	7145	7242	7327
40°	6948	7074	7167
45°	6719	6883	6971
50°	6485	6674	6720
55°	6204	6427	6474
60°	5908	6109	6116
65°	5520	5733	5763
70°	5113	5257	5240
75°	4543	4706	4719
80°	3801	3935	4084
85°	2851	3066	3174



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.4	3.6
10°-20°	1560.2	10.2
20°-30°	2332.2	15.2
30°-40°	2755.4	17.9
40°-50°	2781.5	18.1
50°-60°	2427.5	15.8
60°-70°	1769.7	11.5
70°-80°	954.4	6.2
80°-90°	238.9	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°	4440.7	28.9
0°-40°	7196.1	46.8
0°-60°	12405.1	80.7
0°-90°	15368.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15368.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5804	5804	5804	5804	5804	
5°	5800	5779	5763	5768	5779	550
15°	5536	5524	5523	5536	5557	1561
25°	5038	5039	5058	5090	5111	2320
35°	4350	4362	4409	4452	4460	2721
45°	3531	3556	3617	3662	3663	2726
55°	2645	2677	2740	2750	2760	2364
65°	1734	1771	1801	1804	1810	1723
75°	874	882	905	909	908	929
85°	185	189	199	208	206	225
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5803.8	5803.8	5803.8	5803.8	5803.8
2.5°	5823.0	5802.1	5785.5	5789.0	5803.0
5°	5799.5	5778.6	5762.9	5768.1	5779.4
7.5°	5757.7	5738.5	5726.3	5731.5	5746.3
10°	5700.2	5684.5	5673.2	5681.0	5696.7
12.5°	5627.0	5611.3	5606.9	5618.3	5632.2
15°	5535.5	5524.2	5523.3	5536.4	5557.3
17.5°	5432.7	5421.4	5427.5	5444.9	5463.2
20°	5316.0	5305.5	5317.7	5341.2	5353.4
22.5°	5182.7	5174.0	5195.7	5220.1	5235.8
25°	5038.1	5038.9	5058.1	5090.3	5111.2
27.5°	4877.8	4883.9	4912.6	4944.0	4964.9
30°	4720.1	4714.8	4755.8	4789.8	4805.5
32.5°	4537.1	4539.7	4587.7	4622.5	4646.0
35°	4349.8	4362.0	4409.1	4451.8	4460.5
37.5°	4160.8	4169.5	4226.1	4267.9	4279.3
40°	3956.0	3971.7	4027.5	4066.7	4080.6
42.5°	3742.6	3762.6	3822.8	3863.7	3882.0
45°	3530.9	3556.2	3617.2	3662.5	3663.3
47.5°	3326.2	3344.5	3403.7	3443.8	3439.4
50°	3097.9	3124.9	3188.5	3212.9	3210.3
52.5°	2864.5	2905.4	2963.8	2982.9	2980.3
55°	2644.9	2677.1	2739.9	2750.3	2759.9
57.5°	2417.5	2445.4	2513.4	2517.7	2516.0
60°	2195.4	2220.6	2270.3	2282.5	2272.9
62.5°	1971.5	1996.8	2041.2	2053.4	2051.6
65°	1733.7	1771.1	1800.7	1804.2	1810.3
67.5°	1512.4	1535.9	1564.6	1569.9	1565.5
70°	1299.8	1319.8	1336.4	1339.9	1332.0
72.5°	1080.3	1098.6	1122.1	1126.4	1117.7
75°	873.8	882.5	905.2	908.6	907.8
77.5°	673.4	680.4	696.9	710.0	711.8
80°	490.5	493.1	507.9	517.5	527.1
82.5°	325.0	331.9	343.2	352.8	361.5
85°	184.7	189.0	198.6	208.2	205.6
87.5°	71.4	81.0	81.9	91.5	95.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)