

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: P475579

Luminaire Tested: **24GR-LD5-150-F1-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475579
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-150-F1-UNV-L850-CD1-U
Description: GR 2'X4' LED TROFFER w/ F1 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15383.1 lumens
Efficiency: N/A
Efficacy: 148.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

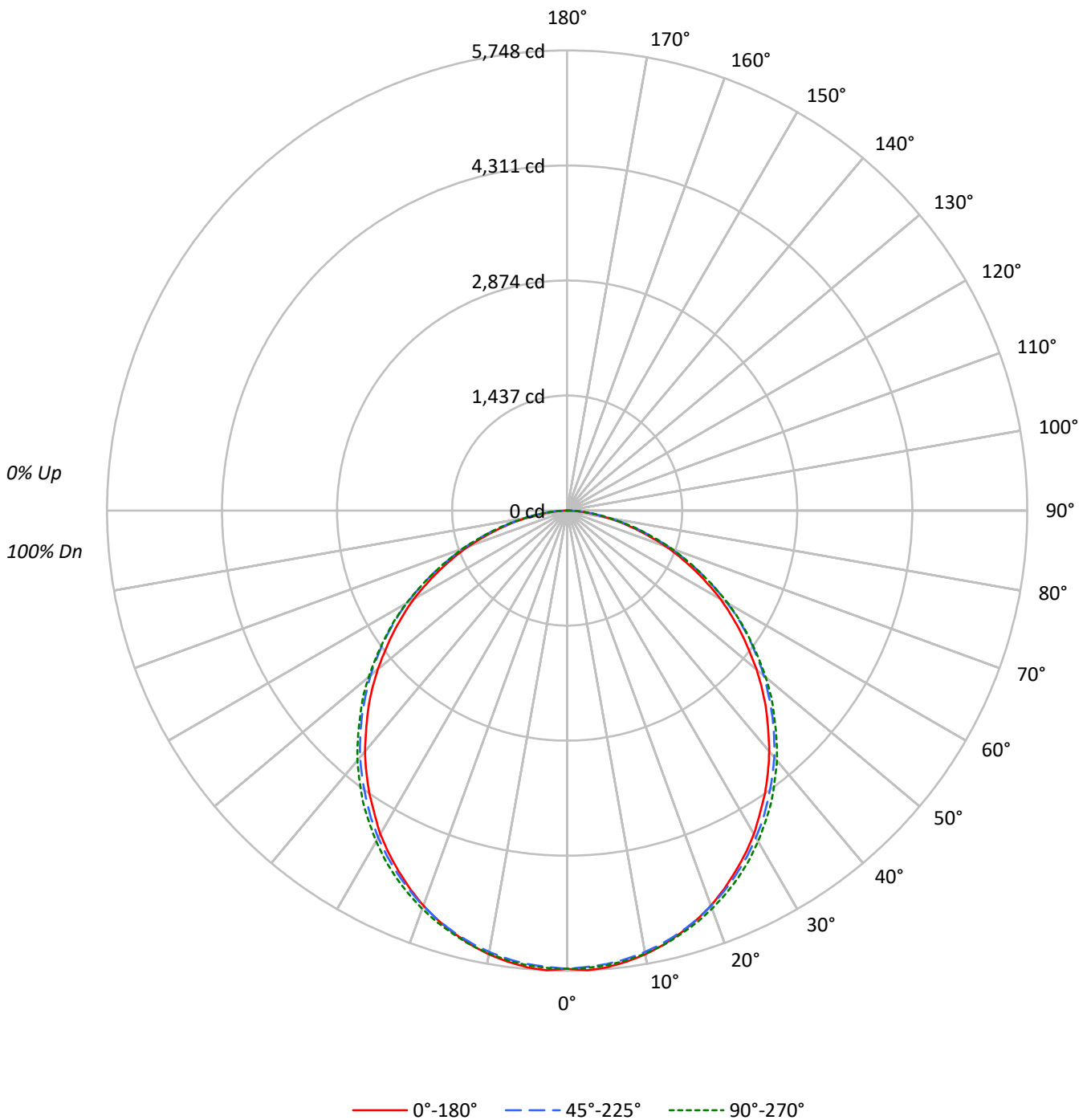
Input Watts (W): 103.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7701	7701	7701
5°	7735	7680	7700
10°	7690	7649	7676
15°	7614	7599	7633
20°	7517	7526	7578
25°	7384	7434	7510
30°	7250	7329	7411
35°	7077	7196	7305
40°	6897	7070	7160
45°	6691	6895	6967
50°	6464	6714	6774
55°	6211	6487	6522
60°	5956	6219	6244
65°	5581	5845	5831
70°	5169	5407	5460
75°	4580	4847	4878
80°	3811	4091	4185
85°	2888	3168	3563



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.9	3.5
10°-20°	1540.2	10.0
20°-30°	2307.7	15.0
30°-40°	2737.9	17.8
40°-50°	2780.5	18.1
50°-60°	2448.7	15.9
60°-70°	1799.3	11.7
70°-80°	978.6	6.4
80°-90°	249.3	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°	4388.8	28.5
0°-40°	7126.7	46.3
0°-60°	12355.9	80.3
0°-90°	15383.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15383.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5724	5724	5724	5724	5724	
5°	5727	5703	5686	5686	5701	543
15°	5466	5455	5455	5463	5479	1541
25°	4974	4980	5007	5036	5058	2292
35°	4309	4333	4381	4425	4448	2693
45°	3517	3545	3624	3666	3662	2710
55°	2648	2685	2765	2791	2780	2367
65°	1753	1782	1836	1850	1832	1737
75°	881	899	932	935	938	937
85°	187	192	205	223	231	227
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5723.8	5723.8	5723.8	5723.8	5723.8
2.5°	5747.9	5725.3	5705.7	5705.7	5719.3
5°	5726.8	5702.7	5686.1	5686.1	5701.2
7.5°	5683.1	5663.4	5649.9	5649.9	5666.5
10°	5628.7	5609.1	5598.6	5600.1	5618.2
12.5°	5556.3	5538.2	5533.7	5536.7	5559.4
15°	5465.8	5455.3	5455.3	5462.8	5479.4
17.5°	5364.7	5354.2	5361.7	5372.3	5393.4
20°	5250.1	5242.5	5256.1	5272.7	5292.3
22.5°	5118.8	5115.8	5138.4	5161.1	5180.7
25°	4974.0	4980.0	5007.2	5035.9	5058.5
27.5°	4824.6	4830.7	4868.4	4898.6	4921.2
30°	4666.2	4669.3	4717.5	4753.7	4770.3
32.5°	4482.2	4506.3	4557.6	4592.3	4607.4
35°	4308.7	4332.8	4381.1	4424.9	4447.5
37.5°	4120.1	4141.2	4204.6	4251.4	4258.9
40°	3927.0	3946.6	4025.1	4064.3	4076.4
42.5°	3715.8	3753.5	3824.4	3863.6	3871.2
45°	3516.6	3545.3	3623.8	3666.0	3661.5
47.5°	3303.9	3335.6	3412.6	3453.3	3460.8
50°	3088.2	3124.4	3207.4	3234.5	3236.0
52.5°	2861.9	2908.7	2984.1	3020.3	3008.2
55°	2647.7	2685.4	2765.3	2791.0	2780.4
57.5°	2427.4	2469.6	2543.6	2557.2	2558.7
60°	2213.2	2247.9	2311.2	2324.8	2320.3
62.5°	1977.8	2012.5	2069.9	2083.4	2072.9
65°	1753.0	1781.7	1836.0	1849.6	1831.5
67.5°	1529.8	1558.4	1600.7	1621.8	1602.2
70°	1314.0	1336.7	1374.4	1386.4	1388.0
72.5°	1084.7	1125.4	1152.6	1151.1	1146.6
75°	881.0	899.2	932.3	935.4	938.4
77.5°	686.4	691.0	725.7	734.7	728.7
80°	491.8	508.4	528.0	538.6	540.1
82.5°	324.4	336.4	353.0	371.1	371.1
85°	187.1	191.6	205.2	223.3	230.8
87.5°	75.4	83.0	96.6	110.1	111.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)