

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: P475879

Luminaire Tested: **24GR-LD5-150-FGW080-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475879
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-150-FGW080-UNV-L850-CD1-U
Description: GR 2'X4' LED TROFFER w/ FGW080 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13075.2 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

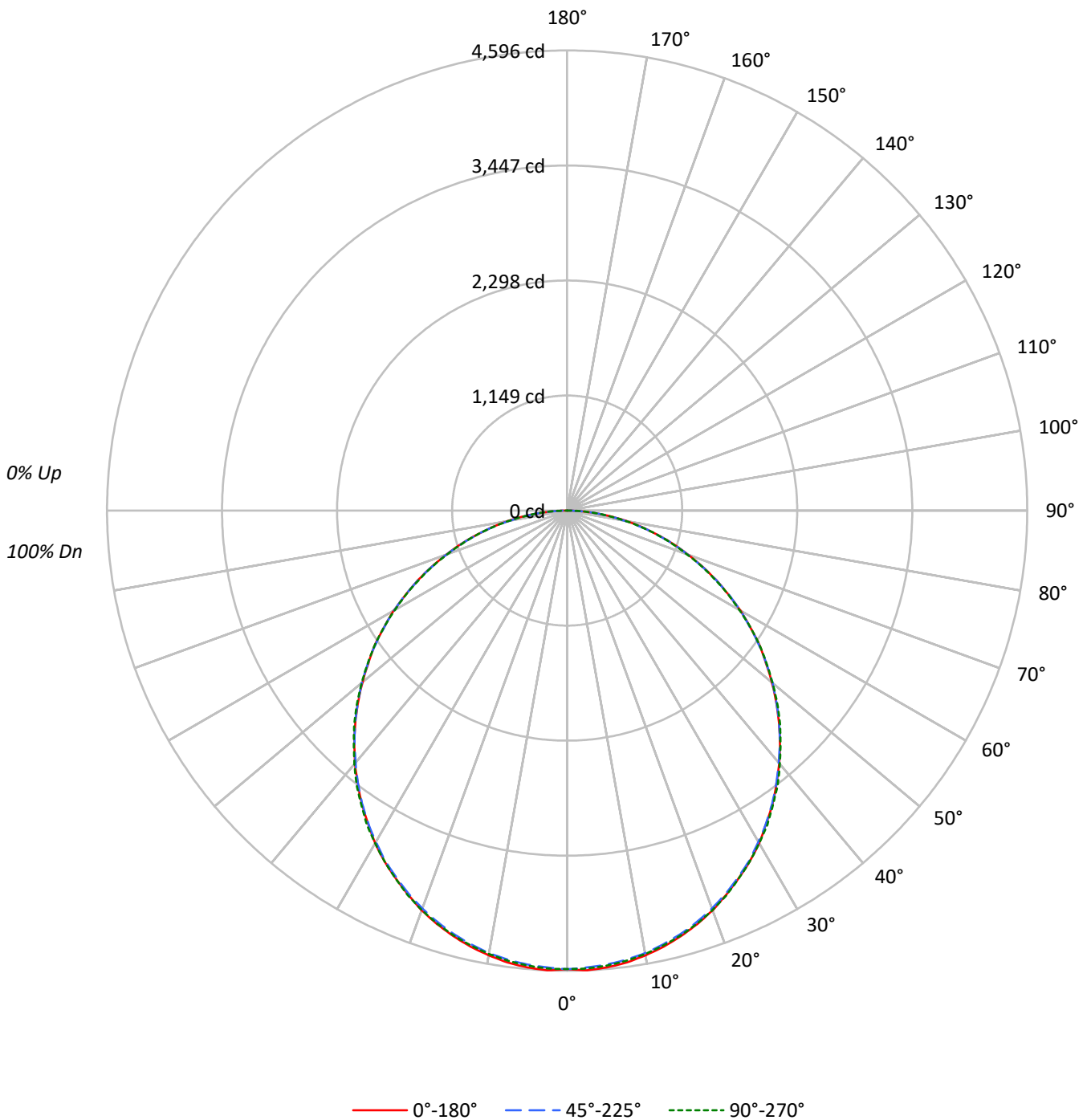
Input Watts (W): 103.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6162	6162	6162
5°	6185	6148	6161
10°	6162	6132	6144
15°	6128	6099	6115
20°	6083	6055	6079
25°	6017	5999	6021
30°	5959	5936	5959
35°	5874	5865	5887
40°	5791	5775	5806
45°	5696	5696	5721
50°	5588	5603	5603
55°	5509	5488	5505
60°	5384	5380	5344
65°	5229	5224	5191
70°	5047	5035	5006
75°	4854	4838	4846
80°	4632	4541	4563
85°	4111	4111	4157



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.1	3.3
10°-20°	1237.1	9.5
20°-30°	1865.1	14.3
30°-40°	2235.1	17.1
40°-50°	2309.3	17.7
50°-60°	2091.3	16.0
60°-70°	1620.0	12.4
70°-80°	982.5	7.5
80°-90°	301.7	2.3
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°	3535.3	27.0
0°-40°	5770.5	44.1
0°-60°	10171.0	77.8
0°-90°	13075.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13075.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4580	4580	4580	4580	4580	
5°	4580	4562	4552	4552	4562	435
15°	4399	4386	4378	4381	4390	1241
25°	4053	4044	4041	4050	4056	1869
35°	3576	3563	3570	3576	3584	2236
45°	2993	2988	2993	2998	3007	2308
55°	2348	2335	2339	2342	2347	2092
65°	1642	1634	1641	1636	1631	1623
75°	934	934	931	922	932	990
85°	266	271	266	262	269	306
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4579.7	4579.7	4579.7	4579.7	4579.7
2.5°	4595.9	4579.7	4567.8	4567.8	4578.2
5°	4579.7	4561.9	4551.6	4551.6	4561.9
7.5°	4553.0	4533.8	4524.9	4524.9	4533.8
10°	4510.1	4495.3	4487.9	4487.9	4496.8
12.5°	4459.8	4446.5	4437.6	4439.1	4448.0
15°	4399.1	4385.8	4378.4	4381.4	4390.3
17.5°	4328.1	4314.8	4308.9	4313.3	4323.7
20°	4248.2	4231.9	4229.0	4233.4	4245.3
22.5°	4152.0	4141.7	4140.2	4147.6	4158.0
25°	4052.9	4044.0	4041.1	4049.9	4055.9
27.5°	3950.8	3934.5	3940.4	3941.9	3950.8
30°	3835.4	3820.6	3820.6	3826.5	3835.4
32.5°	3702.2	3693.3	3700.7	3708.1	3721.4
35°	3576.4	3563.1	3570.5	3576.4	3583.8
37.5°	3434.4	3431.4	3432.9	3441.8	3453.6
40°	3296.8	3287.9	3287.9	3299.7	3305.6
42.5°	3145.8	3138.4	3144.4	3150.3	3153.2
45°	2993.4	2987.5	2993.4	2997.9	3006.7
47.5°	2830.7	2832.1	2833.6	2836.6	2845.5
50°	2669.4	2675.3	2676.8	2682.7	2676.8
52.5°	2502.2	2503.6	2509.6	2511.0	2512.5
55°	2348.3	2335.0	2339.4	2342.4	2346.8
57.5°	2167.8	2163.3	2163.3	2167.8	2170.7
60°	2000.6	1991.7	1999.1	1990.2	1985.8
62.5°	1814.1	1817.1	1820.0	1818.5	1811.2
65°	1642.5	1633.6	1641.0	1636.5	1630.6
67.5°	1461.9	1454.5	1457.5	1456.0	1454.5
70°	1282.9	1282.9	1279.9	1272.5	1272.5
72.5°	1114.2	1105.3	1108.3	1099.4	1099.4
75°	933.7	933.7	930.7	921.9	932.2
77.5°	765.0	760.6	757.6	751.7	751.7
80°	597.8	587.4	586.0	586.0	588.9
82.5°	433.6	426.2	423.2	423.2	424.7
85°	266.3	270.8	266.3	261.9	269.3
87.5°	125.8	119.9	119.9	124.3	127.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)