

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: P475728

Luminaire Tested: **24GR-LD5-130-A-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475728
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-130-A-UNV-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ A LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12601.4 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

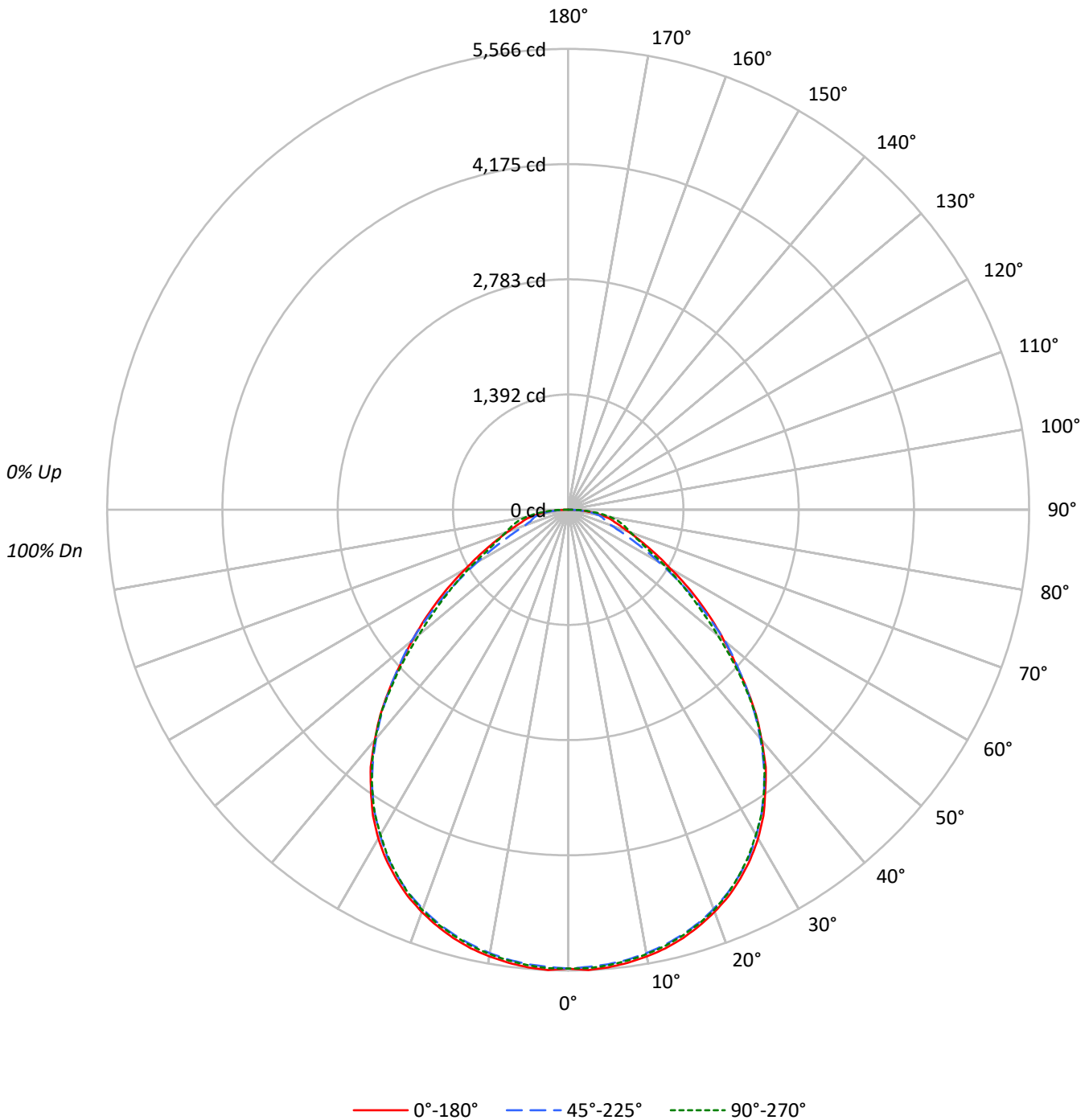
Input Watts (W): 88.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	58	56
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	45	39	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7457	7457	7457
5°	7494	7444	7461
10°	7483	7432	7447
15°	7461	7402	7420
20°	7403	7350	7369
25°	7300	7247	7241
30°	7123	7057	7040
35°	6817	6774	6774
40°	6379	6342	6368
45°	5791	5782	5735
50°	5137	5176	4922
55°	4514	4316	4214
60°	3843	3409	3586
65°	3358	2651	3164
70°	3036	2182	3158
75°	3038	2328	3528
80°	3346	2865	4038
85°	3447	3217	4406



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.8	4.2
10°-20°	1502.5	11.9
20°-30°	2247.7	17.8
30°-40°	2572.1	20.4
40°-50°	2330.4	18.5
50°-60°	1649.8	13.1
60°-70°	953.1	7.6
70°-80°	577.8	4.6
80°-90°	243.2	1.9
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°	4275.0	33.9
0°-40°	6847.1	54.3
0°-60°	10827.3	85.9
0°-90°	12601.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12601.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5542	5542	5542	5542	5542	
5°	5549	5529	5512	5510	5524	527
15°	5356	5335	5314	5314	5327	1510
25°	4917	4897	4881	4878	4878	2262
35°	4150	4132	4124	4118	4124	2589
45°	3044	3037	3039	3016	3014	2345
55°	1924	1860	1840	1786	1797	1725
65°	1055	946	833	953	994	1060
75°	584	524	448	576	679	626
85°	223	201	208	267	285	240
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5542.5	5542.5	5542.5	5542.5	5542.5
2.5°	5566.1	5545.0	5526.4	5528.9	5542.5
5°	5548.7	5528.9	5511.5	5510.3	5523.9
7.5°	5518.9	5501.6	5481.7	5481.7	5492.9
10°	5476.8	5459.4	5439.5	5438.3	5450.7
12.5°	5427.1	5404.8	5383.7	5383.7	5397.4
15°	5356.4	5335.3	5314.2	5314.2	5326.6
17.5°	5269.6	5250.9	5233.6	5234.8	5244.7
20°	5170.3	5151.7	5133.1	5135.6	5146.7
22.5°	5056.1	5033.8	5018.9	5017.7	5025.1
25°	4917.2	4897.3	4881.2	4877.5	4877.5
27.5°	4762.1	4741.0	4729.8	4712.4	4717.4
30°	4584.6	4562.3	4542.5	4532.5	4531.3
32.5°	4384.9	4362.6	4345.2	4343.9	4348.9
35°	4150.4	4131.8	4124.3	4118.1	4124.3
37.5°	3918.4	3883.6	3877.4	3876.2	3892.3
40°	3631.7	3619.3	3610.6	3604.4	3625.5
42.5°	3356.3	3331.5	3334.0	3310.4	3347.6
45°	3043.6	3037.4	3038.6	3016.3	3013.8
47.5°	2733.4	2732.2	2750.8	2688.8	2685.0
50°	2454.2	2441.8	2472.9	2377.3	2351.3
52.5°	2187.5	2152.7	2142.8	2056.0	2056.0
55°	1924.4	1859.9	1840.1	1785.5	1796.6
57.5°	1675.0	1583.2	1542.3	1541.0	1559.6
60°	1428.1	1323.9	1266.8	1311.5	1332.6
62.5°	1232.1	1117.9	1031.1	1115.5	1135.3
65°	1054.7	945.5	832.6	952.9	993.9
67.5°	902.0	811.5	670.0	827.6	882.2
70°	771.8	691.1	554.6	729.6	802.8
72.5°	668.8	601.8	482.7	651.4	739.5
75°	584.4	523.6	447.9	575.7	678.7
77.5°	517.4	445.4	419.4	503.8	609.2
80°	431.8	366.0	369.7	433.0	521.1
82.5°	332.5	282.9	297.8	358.6	409.5
85°	223.3	201.0	208.4	266.8	285.4
87.5°	110.4	106.7	114.2	156.3	156.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)