

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: P231804

Luminaire Tested: **24GR-LD5-130-A-UNV-L930-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-130-A-UNV-L930-CD2-U
Description: METALUX 2X4 GRLED TROFFER
WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

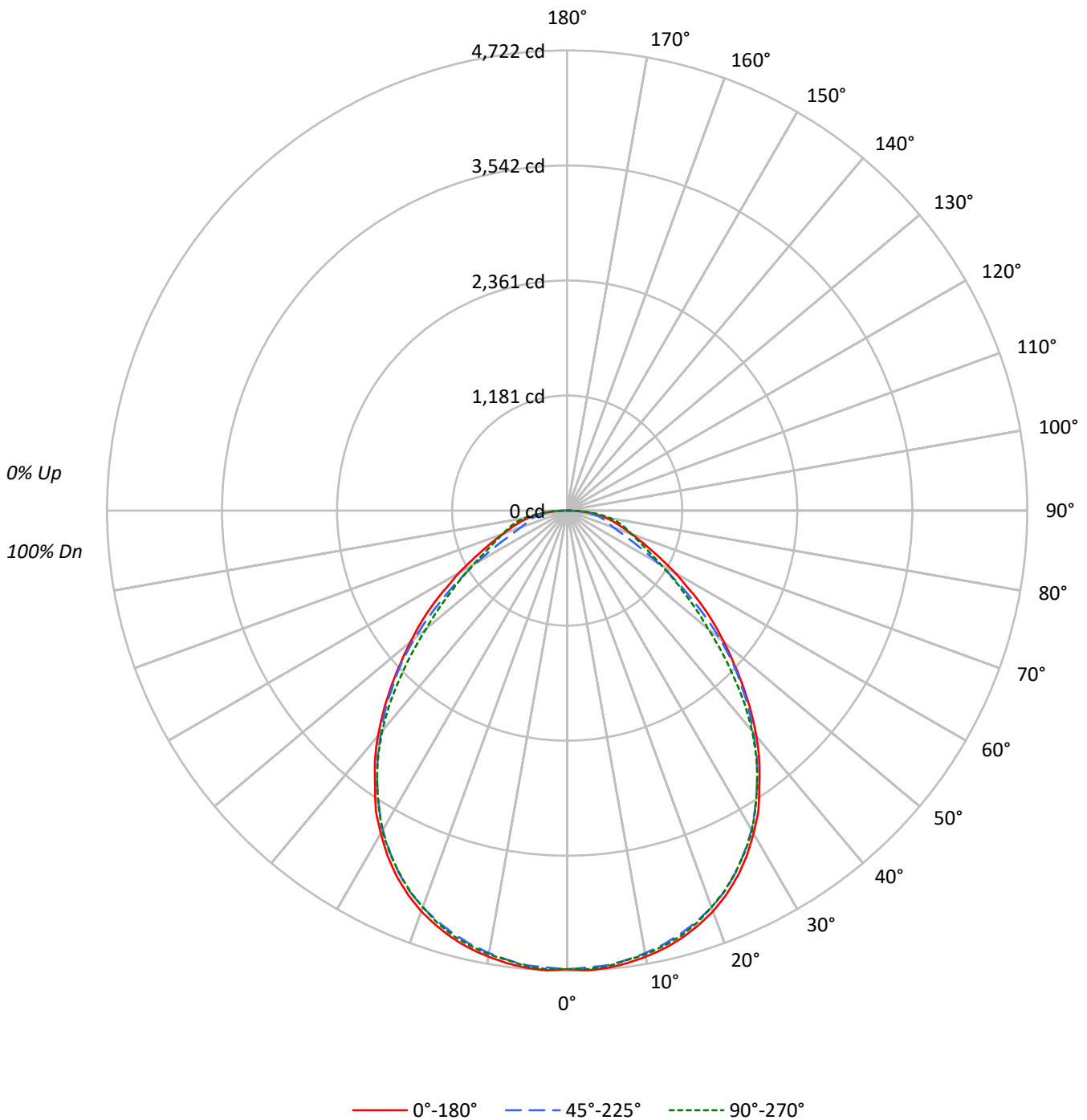
Lumens per Lamp: N/A
Luminaire Lumens: 10606.7 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 99.2
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	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7208	7208	7208
5°	7243	7203	7220
10°	7230	7171	7192
15°	7202	7130	7161
20°	7134	7062	7059
25°	6995	6920	6915
30°	6764	6694	6709
35°	6425	6351	6361
40°	6041	5936	5900
45°	5537	5462	5246
50°	5006	4869	4502
55°	4494	4091	3881
60°	3935	3293	3413
65°	3432	2589	3141
70°	3141	2260	3141
75°	3142	2405	3462
80°	3411	2833	3945
85°	3743	3197	4232



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.6	4.2
10°-20°	1271.8	12.0
20°-30°	1885.8	17.8
30°-40°	2127.4	20.1
40°-50°	1926.8	18.2
50°-60°	1390.1	13.1
60°-70°	830.0	7.8
70°-80°	513.0	4.8
80°-90°	216.1	2.0
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°	3603.3	34.0
0°-40°	5730.7	54.0
0°-60°	9047.6	85.3
0°-90°	10606.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10606.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4706	4706	4706	4706	4706	
5°	4711	4704	4685	4680	4696	448
15°	4542	4514	4496	4498	4516	1280
25°	4139	4116	4095	4080	4092	1901
35°	3436	3431	3397	3398	3402	2150
45°	2556	2540	2522	2460	2422	1970
55°	1683	1630	1532	1457	1453	1502
65°	947	834	714	811	867	953
75°	531	460	406	506	585	567
85°	213	187	182	238	241	223
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4706.1	4706.1	4706.1	4706.1	4706.1
2.5°	4722.5	4709.3	4692.9	4702.8	4711.0
5°	4711.0	4704.4	4684.7	4679.8	4696.2
7.5°	4686.4	4670.0	4652.0	4660.2	4653.7
10°	4648.7	4634.0	4611.0	4612.7	4624.1
12.5°	4602.8	4584.8	4560.3	4566.8	4576.6
15°	4542.2	4514.3	4496.3	4497.9	4516.0
17.5°	4465.2	4443.9	4420.9	4425.9	4434.1
20°	4376.8	4365.3	4332.5	4322.6	4330.8
22.5°	4265.3	4244.0	4226.0	4221.0	4222.7
25°	4139.1	4116.2	4094.8	4080.2	4091.6
27.5°	3991.7	3972.0	3944.1	3939.2	3949.0
30°	3824.5	3809.7	3785.2	3778.6	3793.4
32.5°	3654.1	3629.5	3595.1	3595.1	3598.4
35°	3436.1	3431.2	3396.8	3398.5	3401.8
37.5°	3239.5	3216.6	3196.9	3177.3	3187.1
40°	3021.6	2995.4	2969.1	2956.0	2951.1
42.5°	2787.3	2767.6	2756.1	2708.6	2697.1
45°	2556.2	2539.9	2521.8	2459.5	2421.9
47.5°	2320.3	2317.0	2302.2	2192.4	2154.8
50°	2100.7	2095.8	2043.4	1927.0	1889.3
52.5°	1892.6	1859.8	1791.0	1676.3	1669.8
55°	1682.9	1630.4	1532.1	1456.7	1453.4
57.5°	1461.6	1399.3	1299.4	1258.5	1279.8
60°	1284.7	1189.7	1074.9	1079.9	1114.2
62.5°	1101.2	994.7	881.6	930.7	971.7
65°	947.1	834.0	714.5	811.1	866.8
67.5°	812.8	707.9	593.2	722.6	776.7
70°	701.3	616.1	504.7	640.7	701.3
72.5°	612.9	534.1	447.3	575.1	645.6
75°	530.9	460.4	406.4	506.4	585.0
77.5°	460.4	391.6	367.0	447.3	524.4
80°	386.7	324.5	321.2	390.0	447.3
82.5°	301.5	258.9	258.9	326.1	360.5
85°	213.0	186.8	181.9	237.6	240.8
87.5°	109.8	104.9	95.0	124.6	124.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)