

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: P475713

Luminaire Tested: **24GR-LD5-130-A-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475713
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-L830-CD1-U
Description: GR 2'X4' LED TROFFER w/ A LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12160.4 lumens
Efficiency: N/A
Efficacy: 137.1 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

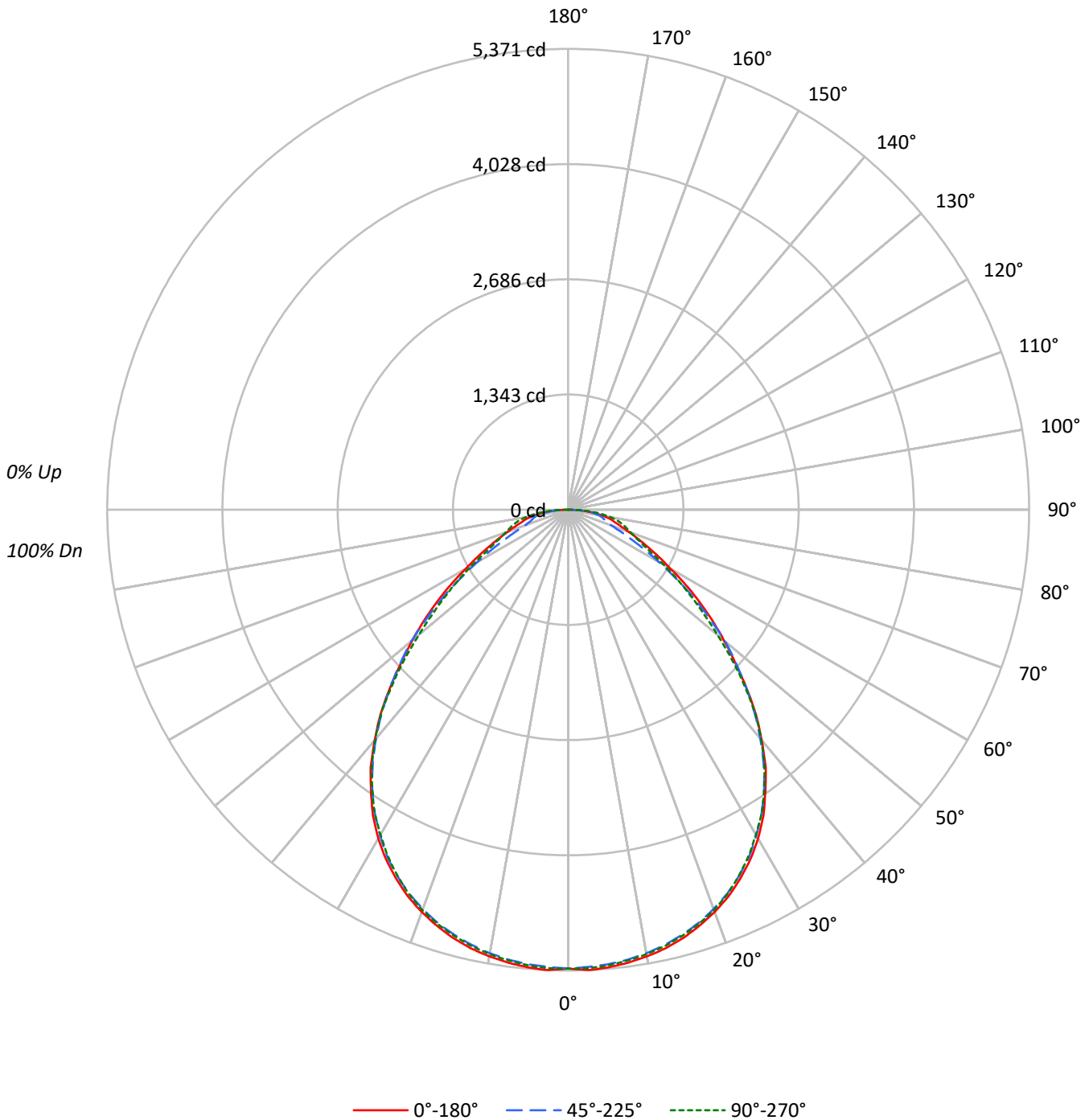
Input Watts (W): 88.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P475713

CATALOG NUMBER: 24GR-LD5-130-A-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P475713

CATALOG NUMBER: 24GR-LD5-130-A-UNV-L830-CD1-U

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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86				86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74				74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64				64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	58	56				56
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49				49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43				43
7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39				39
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35				35
9	60	47	39	34	59	47	39	34	45	39	34	44	38	34	43	38	33	32				32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29				29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7196	7196	7196
5°	7232	7183	7200
10°	7221	7172	7186
15°	7200	7143	7160
20°	7144	7092	7111
25°	7044	6993	6988
30°	6874	6810	6794
35°	6579	6537	6537
40°	6156	6120	6145
45°	5589	5580	5534
50°	4957	4995	4749
55°	4356	4165	4067
60°	3708	3290	3460
65°	3240	2558	3053
70°	2930	2105	3048
75°	2931	2247	3405
80°	3229	2765	3897
85°	3327	3106	4252



TEST NUMBER: P475713

CATALOG NUMBER: 24GR-LD5-130-A-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.4	4.2
10°-20°	1449.9	11.9
20°-30°	2169.0	17.8
30°-40°	2482.1	20.4
40°-50°	2248.8	18.5
50°-60°	1592.1	13.1
60°-70°	919.7	7.6
70°-80°	557.6	4.6
80°-90°	234.7	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°	4125.4	33.9
0°-40°	6607.5	54.3
0°-60°	10448.4	85.9
0°-90°	12160.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12160.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5348	5348	5348	5348	5348	
5°	5354	5335	5319	5317	5331	509
15°	5169	5149	5128	5128	5140	1458
25°	4745	4726	4710	4707	4707	2182
35°	4005	3987	3980	3974	3980	2499
45°	2937	2931	2932	2911	2908	2263
55°	1857	1795	1776	1723	1734	1664
65°	1018	912	803	920	959	1023
75°	564	505	432	556	655	604
85°	216	194	201	257	275	232
90°	0	0	0	0	0	



TEST NUMBER: P475713

CATALOG NUMBER: 24GR-LD5-130-A-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5348.5	5348.5	5348.5	5348.5	5348.5
2.5°	5371.3	5350.9	5333.0	5335.4	5348.5
5°	5354.5	5335.4	5318.6	5317.4	5330.6
7.5°	5325.8	5309.0	5289.9	5289.9	5300.6
10°	5285.1	5268.3	5249.2	5248.0	5259.9
12.5°	5237.2	5215.6	5195.3	5195.3	5208.4
15°	5168.9	5148.6	5128.2	5128.2	5140.2
17.5°	5085.1	5067.2	5050.4	5051.6	5061.2
20°	4989.3	4971.4	4953.4	4955.8	4966.6
22.5°	4879.2	4857.6	4843.3	4842.1	4849.2
25°	4745.1	4725.9	4710.4	4706.8	4706.8
27.5°	4595.4	4575.1	4564.3	4547.5	4552.3
30°	4424.2	4402.6	4383.5	4373.9	4372.7
32.5°	4231.4	4209.9	4193.1	4191.9	4196.7
35°	4005.1	3987.2	3980.0	3974.0	3980.0
37.5°	3781.2	3747.7	3741.7	3740.5	3756.1
40°	3504.6	3492.7	3484.3	3478.3	3498.6
42.5°	3238.8	3214.9	3217.3	3194.5	3230.4
45°	2937.1	2931.1	2932.3	2910.7	2908.3
47.5°	2637.7	2636.6	2654.5	2594.6	2591.1
50°	2368.3	2356.4	2386.3	2294.1	2269.0
52.5°	2110.9	2077.4	2067.8	1984.0	1984.0
55°	1857.1	1794.8	1775.7	1723.0	1733.8
57.5°	1616.4	1527.8	1488.3	1487.1	1505.1
60°	1378.1	1277.6	1222.5	1265.6	1285.9
62.5°	1189.0	1078.8	995.0	1076.4	1095.6
65°	1017.7	912.4	803.4	919.6	959.1
67.5°	870.5	783.1	646.6	798.6	851.3
70°	744.7	666.9	535.2	704.0	774.7
72.5°	645.4	580.7	465.8	628.6	713.6
75°	563.9	505.3	432.2	555.6	654.9
77.5°	499.3	429.8	404.7	486.1	587.9
80°	416.7	353.2	356.8	417.9	502.9
82.5°	320.9	273.0	287.4	346.0	395.1
85°	215.5	194.0	201.2	257.4	275.4
87.5°	106.6	103.0	110.2	150.9	150.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)