

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: P475833

Luminaire Tested: **24GR-LD5-130-FGW080-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475833
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-130-FGW080-UNV-L830-CD1-U
Description: GR 2'X4' LED TROFFER w/ FGW080 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10655.2 lumens
Efficiency: N/A
Efficacy: 120.1 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

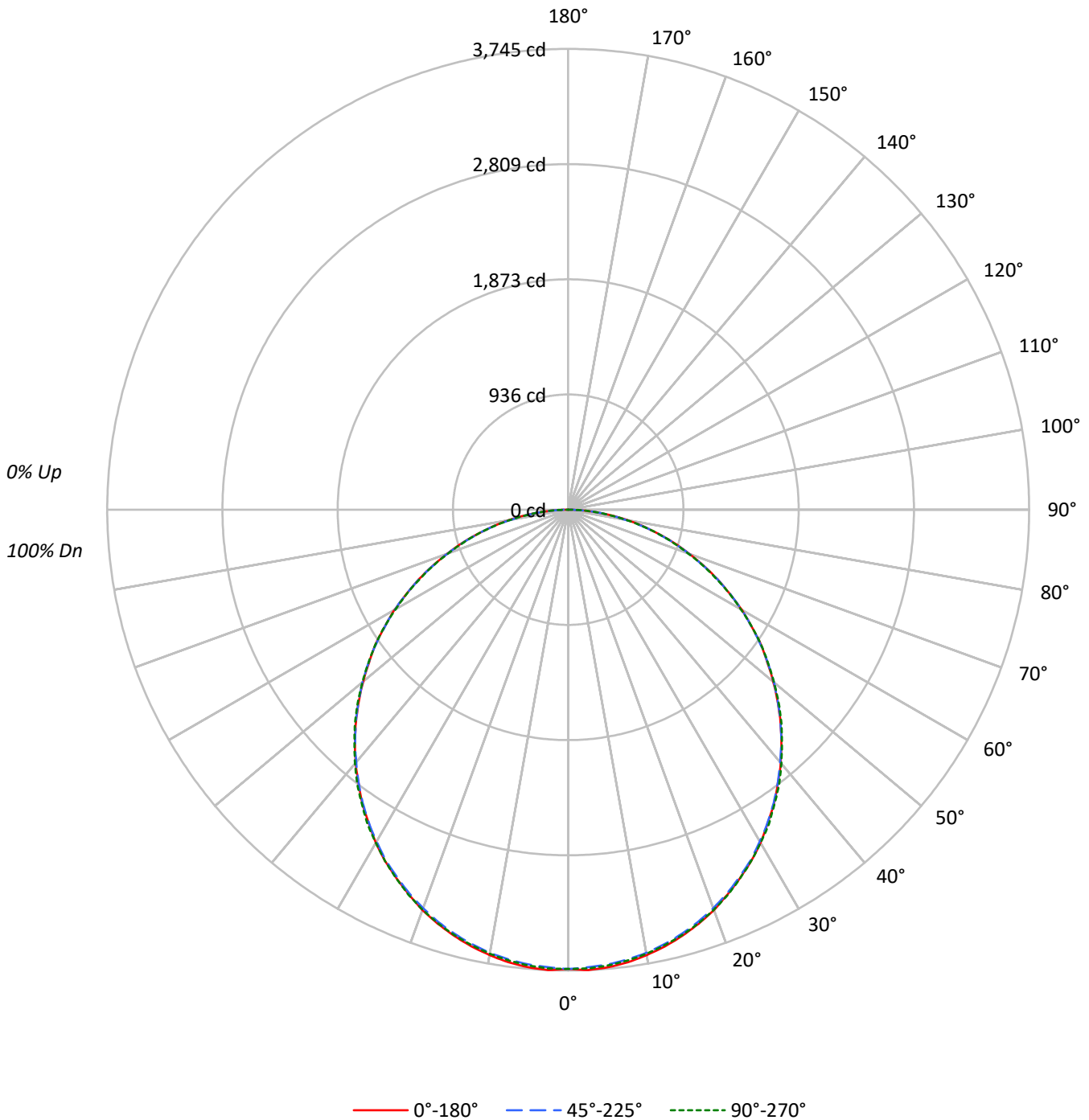
Input Watts (W): 88.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5021	5021	5021
5°	5041	5010	5021
10°	5021	4997	5007
15°	4994	4970	4984
20°	4957	4934	4953
25°	4903	4889	4907
30°	4856	4837	4856
35°	4787	4779	4797
40°	4719	4706	4731
45°	4642	4642	4662
50°	4553	4566	4566
55°	4489	4472	4486
60°	4387	4384	4355
65°	4261	4258	4230
70°	4113	4103	4080
75°	3956	3943	3949
80°	3775	3700	3718
85°	3350	3350	3389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.9	3.3
10°-20°	1008.1	9.5
20°-30°	1519.9	14.3
30°-40°	1821.4	17.1
40°-50°	1881.8	17.7
50°-60°	1704.2	16.0
60°-70°	1320.2	12.4
70°-80°	800.7	7.5
80°-90°	245.8	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°	2881.0	27.0
0°-40°	4702.4	44.1
0°-60°	8288.5	77.8
0°-90°	10655.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10655.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3732	3732	3732	3732	3732	
5°	3732	3718	3709	3709	3718	354
15°	3585	3574	3568	3570	3578	1011
25°	3303	3296	3293	3300	3305	1523
35°	2914	2904	2910	2914	2920	1822
45°	2439	2435	2439	2443	2450	1880
55°	1914	1903	1906	1909	1912	1705
65°	1338	1331	1337	1334	1329	1323
75°	761	761	758	751	760	807
85°	217	221	217	213	220	249
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3732.0	3732.0	3732.0	3732.0	3732.0
2.5°	3745.3	3732.0	3722.4	3722.4	3730.8
5°	3732.0	3717.6	3709.1	3709.1	3717.6
7.5°	3710.3	3694.6	3687.4	3687.4	3694.6
10°	3675.4	3663.3	3657.3	3657.3	3664.5
12.5°	3634.4	3623.5	3616.3	3617.5	3624.7
15°	3584.9	3574.1	3568.0	3570.4	3577.7
17.5°	3527.0	3516.2	3511.4	3515.0	3523.4
20°	3461.9	3448.7	3446.2	3449.9	3459.5
22.5°	3383.5	3375.1	3373.9	3379.9	3388.4
25°	3302.8	3295.5	3293.1	3300.3	3305.2
27.5°	3219.6	3206.3	3211.1	3212.3	3219.6
30°	3125.5	3113.4	3113.4	3118.3	3125.5
32.5°	3017.0	3009.7	3015.8	3021.8	3032.6
35°	2914.5	2903.6	2909.7	2914.5	2920.5
37.5°	2798.7	2796.3	2797.5	2804.7	2814.4
40°	2686.6	2679.3	2679.3	2689.0	2693.8
42.5°	2563.6	2557.6	2562.4	2567.2	2569.6
45°	2439.4	2434.6	2439.4	2443.0	2450.2
47.5°	2306.7	2307.9	2309.2	2311.6	2318.8
50°	2175.3	2180.1	2181.3	2186.2	2181.3
52.5°	2039.0	2040.3	2045.1	2046.3	2047.5
55°	1913.6	1902.8	1906.4	1908.8	1912.4
57.5°	1766.5	1762.9	1762.9	1766.5	1768.9
60°	1630.3	1623.0	1629.1	1621.8	1618.2
62.5°	1478.3	1480.8	1483.2	1482.0	1475.9
65°	1338.5	1331.2	1337.3	1333.6	1328.8
67.5°	1191.4	1185.3	1187.7	1186.5	1185.3
70°	1045.4	1045.4	1043.0	1037.0	1037.0
72.5°	908.0	900.8	903.2	895.9	895.9
75°	760.9	760.9	758.5	751.2	759.7
77.5°	623.4	619.8	617.4	612.6	612.6
80°	487.2	478.7	477.5	477.5	479.9
82.5°	353.3	347.3	344.9	344.9	346.1
85°	217.0	220.7	217.0	213.4	219.5
87.5°	102.5	97.7	97.7	101.3	103.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)