

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: P475846

Luminaire Tested: **24GR-LD5-100-FGW080-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475846
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-100-FGW080-UNV-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ FGW080 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8536.8 lumens
Efficiency: N/A
Efficacy: 127.2 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

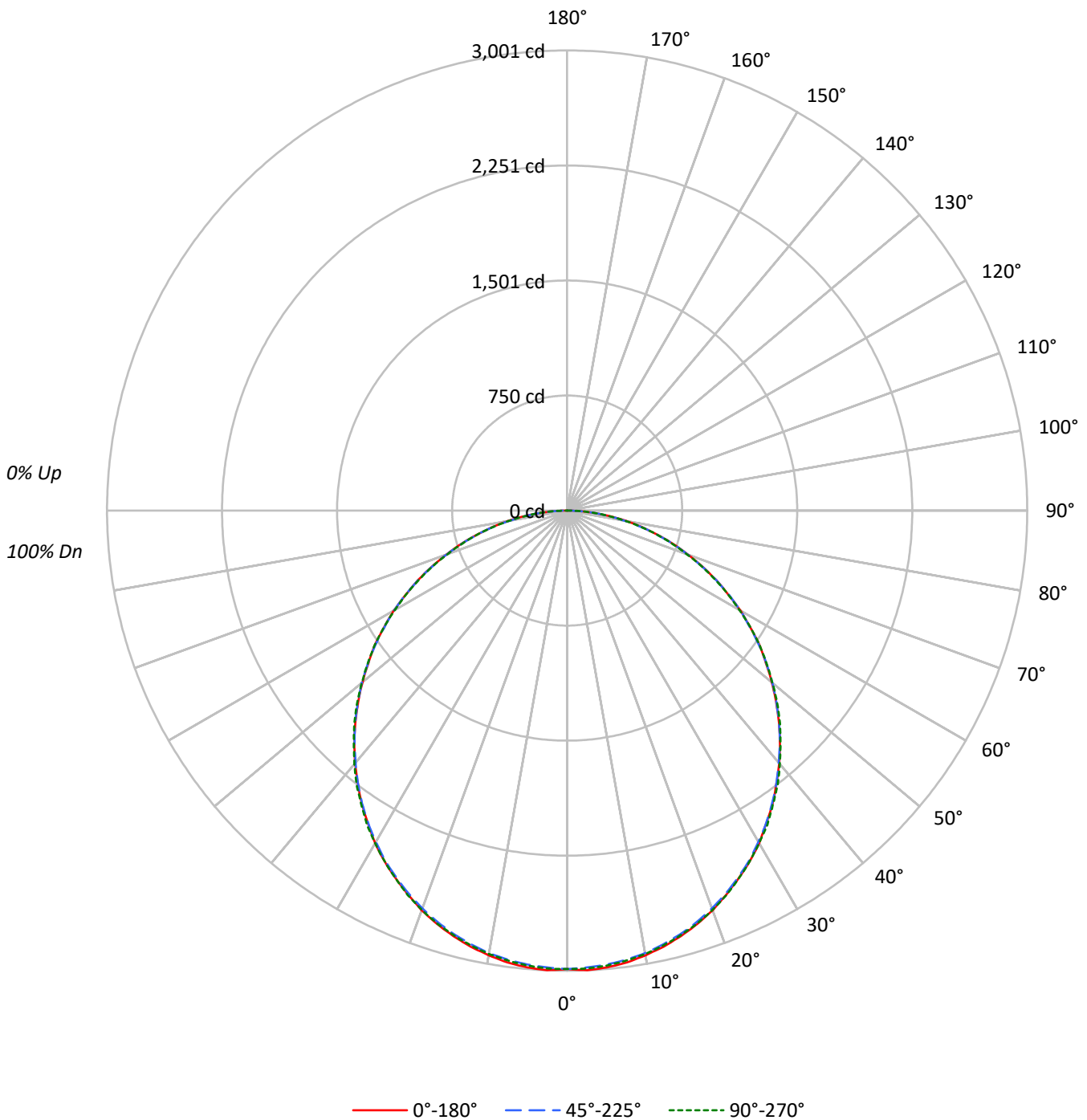
Input Watts (W): 67.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4023	4023	4023
5°	4039	4014	4023
10°	4023	4003	4011
15°	4001	3982	3993
20°	3971	3953	3969
25°	3928	3917	3931
30°	3890	3876	3890
35°	3835	3829	3843
40°	3781	3770	3791
45°	3719	3719	3735
50°	3648	3658	3658
55°	3597	3583	3594
60°	3515	3512	3489
65°	3414	3411	3389
70°	3295	3288	3268
75°	3169	3159	3164
80°	3024	2965	2979
85°	2685	2685	2714



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.8	3.3
10°-20°	807.7	9.5
20°-30°	1217.7	14.3
30°-40°	1459.3	17.1
40°-50°	1507.7	17.7
50°-60°	1365.4	16.0
60°-70°	1057.7	12.4
70°-80°	641.5	7.5
80°-90°	197.0	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°	2308.2	27.0
0°-40°	3767.6	44.1
0°-60°	6640.7	77.8
0°-90°	8536.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8536.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2990	2990	2990	2990	2990	
5°	2990	2978	2972	2972	2978	284
15°	2872	2864	2859	2861	2866	810
25°	2646	2640	2638	2644	2648	1220
35°	2335	2326	2331	2335	2340	1460
45°	1954	1951	1954	1957	1963	1507
55°	1533	1524	1527	1529	1532	1366
65°	1072	1067	1071	1068	1065	1060
75°	610	610	608	602	609	646
85°	174	177	174	171	176	200
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2990.1	2990.1	2990.1	2990.1	2990.1
2.5°	3000.7	2990.1	2982.3	2982.3	2989.1
5°	2990.1	2978.5	2971.7	2971.7	2978.5
7.5°	2972.7	2960.1	2954.3	2954.3	2960.1
10°	2944.7	2935.0	2930.2	2930.2	2936.0
12.5°	2911.8	2903.1	2897.3	2898.3	2904.1
15°	2872.2	2863.5	2858.7	2860.6	2866.4
17.5°	2825.8	2817.1	2813.3	2816.2	2822.9
20°	2773.7	2763.0	2761.1	2764.0	2771.7
22.5°	2710.9	2704.1	2703.1	2708.0	2714.7
25°	2646.1	2640.3	2638.4	2644.2	2648.1
27.5°	2579.5	2568.9	2572.7	2573.7	2579.5
30°	2504.1	2494.5	2494.5	2498.3	2504.1
32.5°	2417.2	2411.4	2416.2	2421.0	2429.7
35°	2335.1	2326.4	2331.2	2335.1	2339.9
37.5°	2242.3	2240.4	2241.3	2247.1	2254.9
40°	2152.5	2146.7	2146.7	2154.4	2158.3
42.5°	2053.9	2049.1	2053.0	2056.8	2058.8
45°	1954.4	1950.6	1954.4	1957.3	1963.1
47.5°	1848.1	1849.1	1850.1	1852.0	1857.8
50°	1742.8	1746.7	1747.7	1751.5	1747.7
52.5°	1633.7	1634.6	1638.5	1639.5	1640.4
55°	1533.2	1524.5	1527.4	1529.3	1532.2
57.5°	1415.3	1412.4	1412.4	1415.3	1417.3
60°	1306.2	1300.4	1305.2	1299.4	1296.5
62.5°	1184.4	1186.4	1188.3	1187.3	1182.5
65°	1072.4	1066.6	1071.4	1068.5	1064.6
67.5°	954.5	949.7	951.6	950.6	949.7
70°	837.6	837.6	835.7	830.8	830.8
72.5°	727.5	721.7	723.6	717.8	717.8
75°	609.6	609.6	607.7	601.9	608.6
77.5°	499.5	496.6	494.6	490.8	490.8
80°	390.3	383.5	382.6	382.6	384.5
82.5°	283.1	278.2	276.3	276.3	277.3
85°	173.9	176.8	173.9	171.0	175.8
87.5°	82.1	78.3	78.3	81.2	83.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)