

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: P475877

Luminaire Tested: **24GR-LD5-120-FGW080-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475877
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-120-FGW080-UNV-L850-CD1-U
Description: GR 2'X4' LED TROFFER w/ FGW080 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10421.5 lumens
Efficiency: N/A
Efficacy: 128.0 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

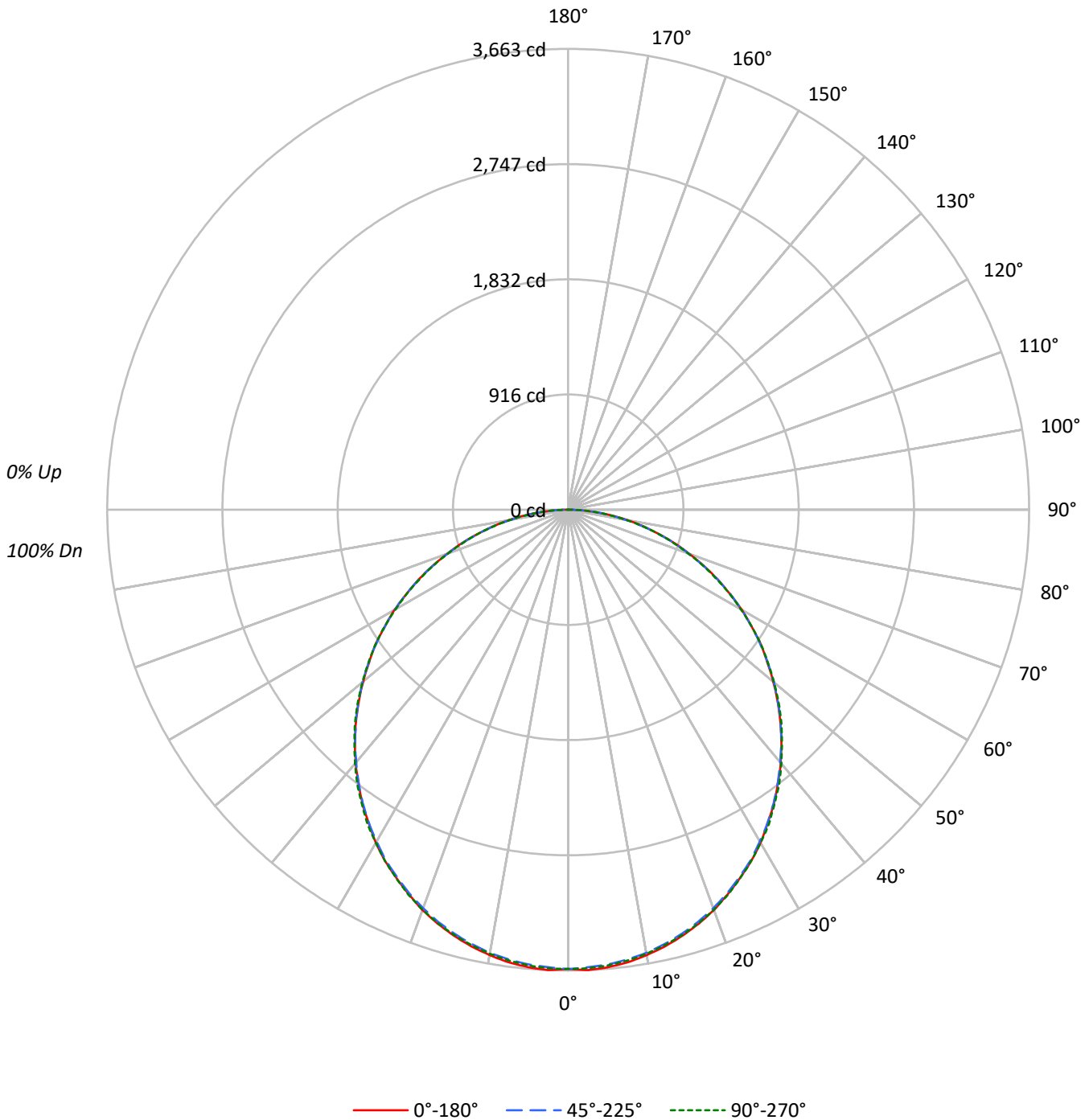
Input Watts (W): 81.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4911	4911	4911
5°	4930	4900	4911
10°	4911	4887	4897
15°	4884	4861	4874
20°	4848	4826	4845
25°	4796	4782	4799
30°	4749	4731	4749
35°	4682	4675	4692
40°	4615	4603	4628
45°	4540	4540	4560
50°	4454	4466	4466
55°	4391	4374	4388
60°	4291	4288	4259
65°	4168	4164	4138
70°	4022	4013	3990
75°	3869	3856	3863
80°	3692	3618	3637
85°	3277	3277	3313



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.2	3.3
10°-20°	986.0	9.5
20°-30°	1486.6	14.3
30°-40°	1781.5	17.1
40°-50°	1840.6	17.7
50°-60°	1666.8	16.0
60°-70°	1291.2	12.4
70°-80°	783.1	7.5
80°-90°	240.4	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°	2817.8	27.0
0°-40°	4599.3	44.1
0°-60°	8106.8	77.8
0°-90°	10421.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10421.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3650	3650	3650	3650	3650	
5°	3650	3636	3628	3628	3636	347
15°	3506	3496	3490	3492	3499	989
25°	3230	3223	3221	3228	3233	1489
35°	2851	2840	2846	2851	2856	1782
45°	2386	2381	2386	2389	2396	1839
55°	1872	1861	1865	1867	1870	1667
65°	1309	1302	1308	1304	1300	1294
75°	744	744	742	735	743	789
85°	212	216	212	209	215	244
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3650.2	3650.2	3650.2	3650.2	3650.2
2.5°	3663.2	3650.2	3640.8	3640.8	3649.0
5°	3650.2	3636.0	3627.8	3627.8	3636.0
7.5°	3629.0	3613.6	3606.6	3606.6	3613.6
10°	3594.8	3583.0	3577.1	3577.1	3584.1
12.5°	3554.7	3544.0	3537.0	3538.1	3545.2
15°	3506.3	3495.7	3489.8	3492.2	3499.2
17.5°	3449.7	3439.1	3434.4	3437.9	3446.2
20°	3386.0	3373.0	3370.7	3374.2	3383.6
22.5°	3309.3	3301.1	3299.9	3305.8	3314.1
25°	3230.3	3223.3	3220.9	3228.0	3232.7
27.5°	3149.0	3136.0	3140.7	3141.9	3149.0
30°	3057.0	3045.2	3045.2	3049.9	3057.0
32.5°	2950.8	2943.7	2949.6	2955.5	2966.1
35°	2850.6	2840.0	2845.9	2850.6	2856.5
37.5°	2737.3	2735.0	2736.2	2743.2	2752.7
40°	2627.7	2620.6	2620.6	2630.0	2634.7
42.5°	2507.4	2501.5	2506.2	2510.9	2513.3
45°	2385.9	2381.2	2385.9	2389.4	2396.5
47.5°	2256.2	2257.3	2258.5	2260.9	2268.0
50°	2127.6	2132.3	2133.5	2138.2	2133.5
52.5°	1994.3	1995.5	2000.2	2001.4	2002.6
55°	1871.7	1861.1	1864.6	1867.0	1870.5
57.5°	1727.8	1724.3	1724.3	1727.8	1730.2
60°	1594.5	1587.4	1593.3	1586.3	1582.7
62.5°	1445.9	1448.3	1450.6	1449.5	1443.6
65°	1309.1	1302.0	1307.9	1304.4	1299.7
67.5°	1165.2	1159.3	1161.7	1160.5	1159.3
70°	1022.5	1022.5	1020.2	1014.3	1014.3
72.5°	888.1	881.0	883.4	876.3	876.3
75°	744.2	744.2	741.8	734.8	743.0
77.5°	609.7	606.2	603.8	599.1	599.1
80°	476.5	468.2	467.0	467.0	469.4
82.5°	345.6	339.7	337.3	337.3	338.5
85°	212.3	215.8	212.3	208.8	214.6
87.5°	100.2	95.5	95.5	99.1	101.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)