

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: P231777

Luminaire Tested: **24GR-LD5-100-F1-UNV-L935-CD2-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P231777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-100-F1-UNV-L935-CD2-U
Description: METALUX 2X4 GRLED TROFFER
WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8525.5 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

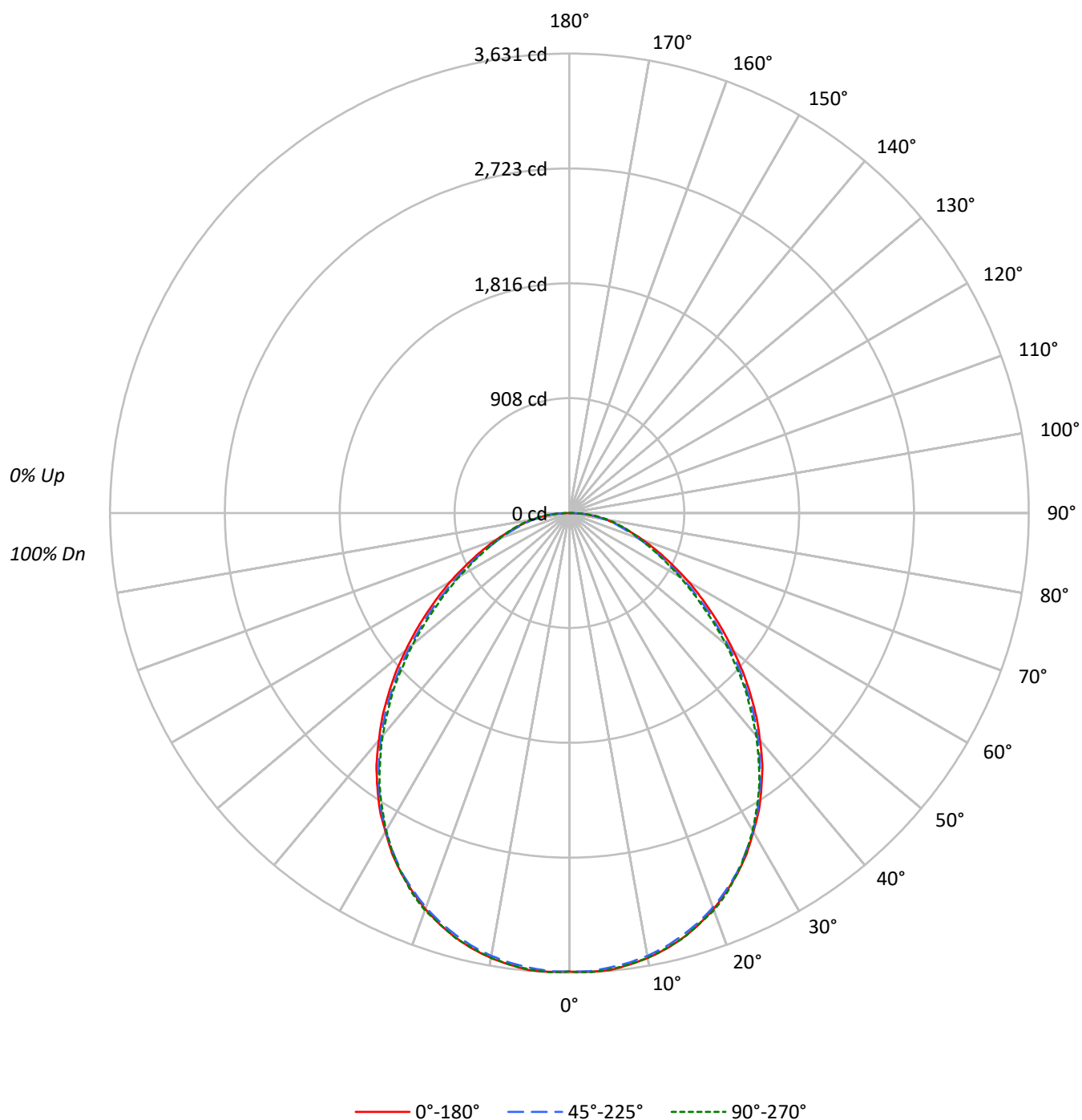
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	103	99	96		98	95	93		95	92	90		91	89	87
2	100	92	86	81	98	91	85	80		87	82	78		84	80	76		81	77	74
3	92	82	74	68	90	80	73	68		78	71	66		75	70	65		72	68	64
4	85	73	65	59	82	72	64	58		70	63	57		67	61	57		65	60	56
5	78	66	57	51	76	65	57	51		63	56	50		61	55	50		59	54	49
6	73	60	51	45	71	59	51	45		57	50	44		55	49	44		54	48	44
7	67	54	46	40	66	54	46	40		52	45	40		51	44	39		49	44	39
8	63	50	42	36	61	49	41	36		48	41	36		47	40	36		46	40	35
9	59	46	38	33	58	45	38	33		44	37	32		43	37	32		42	36	32
10	55	43	35	30	54	42	35	30		41	34	30		40	34	29		39	33	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5550	5550	5550
5°	5575	5544	5567
10°	5552	5525	5550
15°	5509	5479	5513
20°	5428	5406	5445
25°	5310	5297	5308
30°	5143	5133	5121
35°	4949	4911	4891
40°	4684	4631	4593
45°	4382	4301	4249
50°	4026	3918	3852
55°	3672	3537	3434
60°	3335	3155	3074
65°	3004	2835	2787
70°	2751	2572	2643
75°	2571	2453	2634
80°	2551	2503	2751
85°	2599	2624	2998



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.9	4.0
10°-20°	974.9	11.4
20°-30°	1440.3	16.9
30°-40°	1637.4	19.2
40°-50°	1529.1	17.9
50°-60°	1189.2	13.9
60°-70°	789.0	9.3
70°-80°	456.6	5.4
80°-90°	166.0	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°	2758.1	32.4
0°-40°	4395.5	51.6
0°-60°	7113.8	83.4
0°-90°	8525.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8525.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3623	3623	3623	3623	3623	
5°	3626	3607	3606	3613	3621	344
15°	3474	3457	3455	3454	3477	979
25°	3142	3129	3134	3128	3141	1445
35°	2647	2633	2627	2608	2616	1652
45°	2023	2007	1986	1960	1962	1559
55°	1375	1355	1325	1290	1286	1233
65°	829	804	782	768	769	828
75°	434	424	414	433	445	465
85°	148	145	149	169	171	161
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3623.3	3623.3	3623.3	3623.3	3623.3
2.5°	3628.6	3618.0	3623.3	3619.3	3631.4
5°	3626.0	3607.3	3606.0	3612.7	3620.7
7.5°	3600.7	3580.7	3584.7	3584.7	3598.0
10°	3570.0	3550.0	3552.7	3554.0	3568.7
12.5°	3528.7	3508.7	3510.1	3508.7	3523.4
15°	3474.1	3456.8	3455.4	3454.1	3476.8
17.5°	3407.5	3383.5	3391.5	3392.8	3404.8
20°	3330.1	3311.5	3316.9	3315.5	3340.8
22.5°	3238.2	3224.9	3228.9	3226.3	3250.2
25°	3142.3	3128.9	3134.3	3127.6	3140.9
27.5°	3034.3	3025.0	3019.7	3015.6	3025.0
30°	2907.8	2902.4	2902.4	2885.1	2895.7
32.5°	2787.8	2770.5	2770.5	2763.8	2757.1
35°	2646.6	2633.2	2626.6	2607.9	2615.9
37.5°	2505.3	2474.6	2472.0	2457.4	2457.4
40°	2342.7	2325.3	2316.1	2300.1	2297.4
42.5°	2188.2	2170.8	2154.8	2128.1	2122.8
45°	2022.9	2006.9	1985.6	1960.3	1961.5
47.5°	1859.0	1836.3	1816.4	1785.7	1781.7
50°	1689.7	1673.7	1644.4	1617.8	1616.4
52.5°	1531.2	1505.9	1479.2	1447.2	1447.2
55°	1375.2	1355.2	1324.6	1290.0	1286.0
57.5°	1226.0	1207.3	1172.7	1147.3	1140.7
60°	1088.8	1062.1	1030.1	1008.8	1003.4
62.5°	951.5	927.5	903.5	882.2	880.9
65°	828.8	803.6	782.3	767.6	768.9
67.5°	718.2	696.9	672.9	668.9	670.3
70°	614.3	591.7	574.3	583.7	590.3
72.5°	515.7	503.7	491.7	505.1	514.4
75°	434.4	423.7	414.5	433.1	445.1
77.5°	359.8	351.8	350.5	366.4	377.1
80°	289.2	279.8	283.8	302.5	311.9
82.5°	219.9	213.2	214.5	237.2	243.9
85°	147.9	145.3	149.3	169.2	170.6
87.5°	78.6	78.6	81.3	93.2	89.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)