

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: P219078

Luminaire Tested: **24GR-LD5-90-F1-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35585)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-90-F1-UNV-L950-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8413.9 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

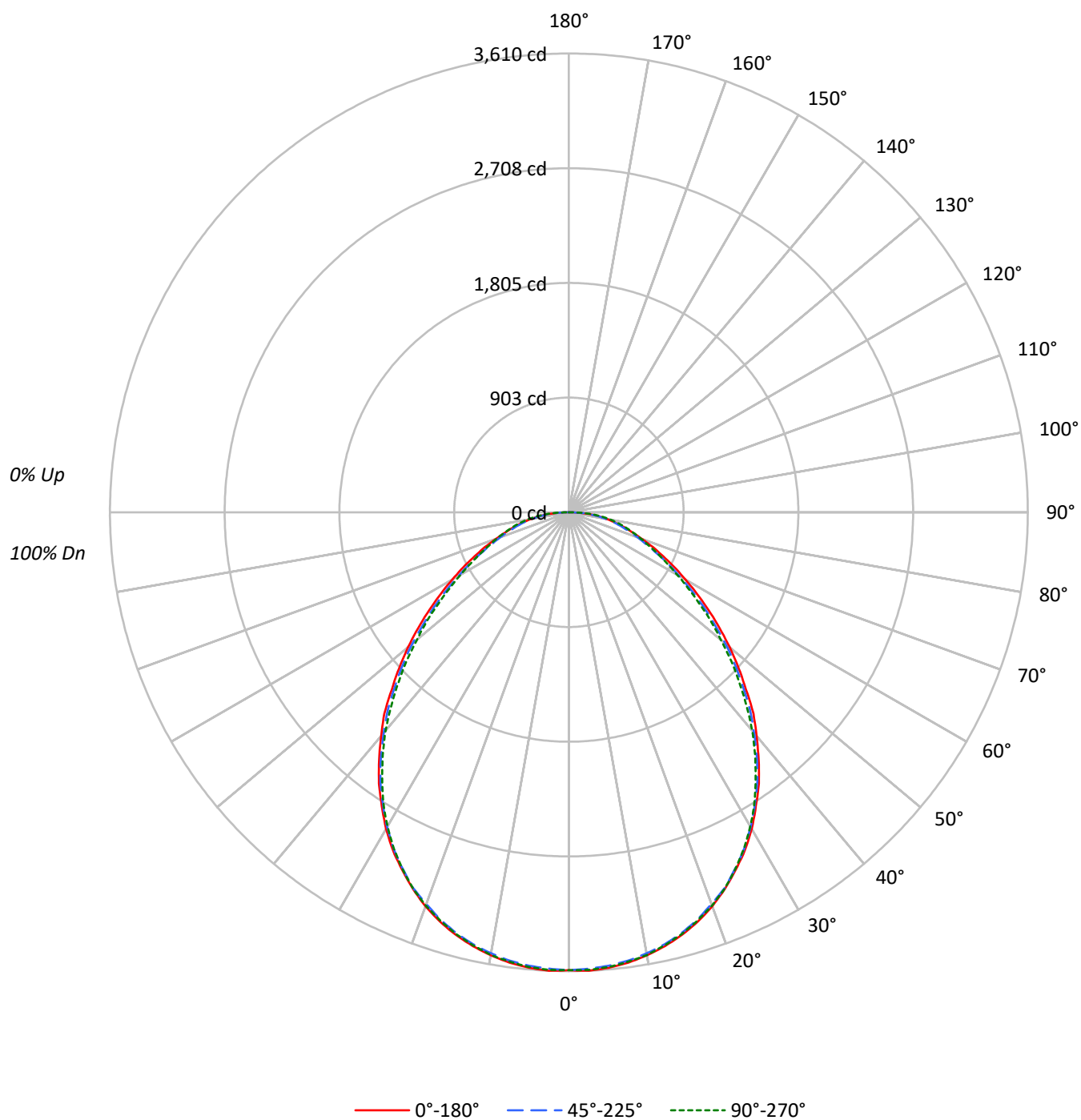
Input Watts (W): 69.117
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		94	92	90		91	89	87
2	100	92	86	80	98	90	85	80		87	82	78		84	80	76		81	77	74
3	92	82	74	68	89	80	73	67		77	71	66		75	69	65		72	68	64
4	85	73	65	58	82	72	64	58		69	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	72	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°	5518	5518	5518
5°	5531	5505	5521
10°	5504	5480	5500
15°	5457	5433	5445
20°	5377	5345	5367
25°	5246	5229	5233
30°	5087	5057	5047
35°	4871	4832	4788
40°	4591	4531	4487
45°	4265	4190	4111
50°	3932	3830	3715
55°	3575	3450	3343
60°	3238	3068	3012
65°	2962	2764	2783
70°	2725	2568	2690
75°	2648	2510	2741
80°	2654	2586	2918
85°	2919	2759	3214



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.3	4.0
10°-20°	966.0	11.5
20°-30°	1423.4	16.9
30°-40°	1609.7	19.1
40°-50°	1493.1	17.7
50°-60°	1160.0	13.8
60°-70°	777.9	9.2
70°-80°	466.2	5.5
80°-90°	177.4	2.1
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°	2729.7	32.4
0°-40°	4339.4	51.6
0°-60°	6992.5	83.1
0°-90°	8413.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8413.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3602	3602	3602	3602	3602	
5°	3597	3587	3580	3578	3591	341
15°	3442	3427	3426	3420	3434	970
25°	3104	3100	3094	3089	3096	1429
35°	2605	2594	2584	2569	2561	1623
45°	1969	1961	1934	1904	1898	1523
55°	1339	1323	1292	1260	1252	1202
65°	817	791	763	760	768	816
75°	448	432	424	445	463	473
85°	166	156	157	184	183	174
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3602.5	3602.5	3602.5	3602.5	3602.5
2.5°	3610.2	3598.6	3593.4	3590.8	3602.5
5°	3597.3	3586.9	3580.4	3577.8	3590.8
7.5°	3573.9	3562.3	3558.4	3553.2	3566.2
10°	3538.9	3528.5	3523.3	3519.4	3536.4
12.5°	3494.8	3485.8	3480.6	3477.9	3488.3
15°	3441.6	3427.3	3426.1	3419.6	3433.8
17.5°	3375.5	3362.4	3359.9	3357.3	3366.4
20°	3298.9	3285.9	3279.5	3278.2	3292.5
22.5°	3206.8	3197.7	3200.3	3192.6	3202.9
25°	3104.4	3100.5	3093.9	3088.7	3096.5
27.5°	2998.0	2985.0	2985.0	2974.6	2982.4
30°	2876.1	2867.0	2859.1	2848.8	2853.9
32.5°	2738.5	2734.6	2722.9	2712.5	2715.2
35°	2604.9	2594.5	2584.1	2568.6	2560.7
37.5°	2451.8	2441.4	2428.4	2406.4	2403.9
40°	2296.1	2287.1	2266.3	2243.0	2244.2
42.5°	2148.2	2134.0	2108.0	2076.9	2070.4
45°	1969.2	1961.4	1934.2	1904.4	1897.9
47.5°	1809.6	1804.4	1770.8	1739.6	1731.8
50°	1650.1	1635.8	1607.3	1576.1	1559.3
52.5°	1493.1	1475.0	1438.6	1417.9	1410.1
55°	1338.8	1323.2	1292.1	1259.6	1251.9
57.5°	1194.7	1177.9	1140.3	1116.9	1113.0
60°	1057.2	1041.7	1001.5	984.6	983.3
62.5°	935.3	909.4	882.2	870.4	871.8
65°	817.3	791.3	762.8	760.2	767.9
67.5°	713.5	686.2	657.7	668.1	675.9
70°	608.4	589.0	573.4	590.2	600.6
72.5°	518.9	507.2	492.9	516.3	529.3
75°	447.5	432.0	424.2	445.0	463.1
77.5°	371.0	358.1	358.1	380.1	399.6
80°	300.9	291.8	293.2	319.1	330.8
82.5°	236.1	223.1	224.4	256.9	264.6
85°	166.1	155.7	157.0	184.2	182.9
87.5°	86.9	83.0	86.9	106.4	101.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)