

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: P219108

Luminaire Tested: **24GR-LD5-90-A-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-90-A-UNV-L935-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7818.8 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

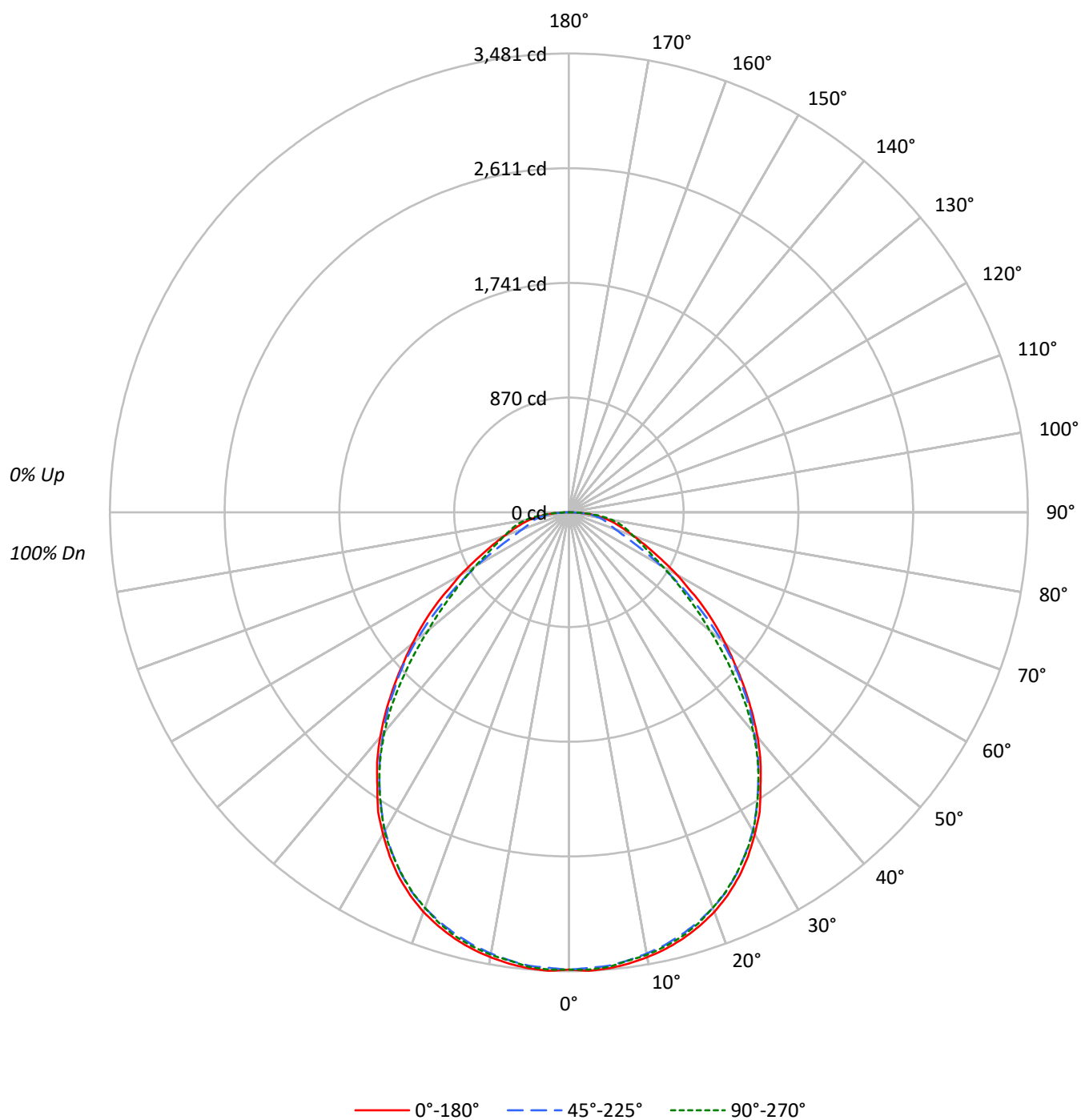
Input Watts (W): 69.117
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63		
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55		
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49		
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43		
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39		
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35		
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32		
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5313	5313	5313
5°	5339	5310	5323
10°	5330	5286	5302
15°	5309	5256	5279
20°	5259	5205	5204
25°	5156	5101	5097
30°	4986	4935	4945
35°	4736	4682	4689
40°	4453	4376	4349
45°	4082	4027	3867
50°	3690	3589	3319
55°	3313	3016	2861
60°	2901	2427	2516
65°	2530	1909	2315
70°	2315	1666	2315
75°	2316	1772	2552
80°	2515	2088	2909
85°	2759	2355	3121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.5	4.2
10°-20°	937.5	12.0
20°-30°	1390.1	17.8
30°-40°	1568.2	20.1
40°-50°	1420.4	18.2
50°-60°	1024.7	13.1
60°-70°	611.8	7.8
70°-80°	378.2	4.8
80°-90°	159.3	2.0
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°	2656.2	34.0
0°-40°	4224.4	54.0
0°-60°	6669.5	85.3
0°-90°	7818.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7818.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3469	3469	3469	3469	3469	
5°	3473	3468	3453	3450	3462	330
15°	3348	3328	3314	3316	3329	944
25°	3051	3034	3018	3008	3016	1402
35°	2533	2529	2504	2505	2508	1585
45°	1884	1872	1859	1813	1785	1452
55°	1240	1202	1129	1074	1071	1107
65°	698	615	527	598	639	702
75°	391	339	300	373	431	418
85°	157	138	134	175	178	164
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3469.1	3469.1	3469.1	3469.1	3469.1
2.5°	3481.2	3471.5	3459.4	3466.7	3472.8
5°	3472.8	3467.9	3453.4	3449.8	3461.9
7.5°	3454.7	3442.5	3429.2	3435.3	3430.4
10°	3426.9	3416.0	3399.1	3400.3	3408.8
12.5°	3393.0	3379.7	3361.6	3366.4	3373.6
15°	3348.3	3327.8	3314.5	3315.7	3329.0
17.5°	3291.5	3275.8	3258.9	3262.6	3268.6
20°	3226.3	3217.8	3193.7	3186.5	3192.5
22.5°	3144.2	3128.5	3115.2	3111.6	3112.8
25°	3051.2	3034.2	3018.5	3007.7	3016.1
27.5°	2942.4	2928.0	2907.4	2903.8	2911.1
30°	2819.3	2808.4	2790.3	2785.4	2796.3
32.5°	2693.6	2675.5	2650.1	2650.1	2652.6
35°	2533.0	2529.3	2504.0	2505.2	2507.6
37.5°	2388.0	2371.2	2356.6	2342.1	2349.4
40°	2227.3	2208.0	2188.8	2179.1	2175.4
42.5°	2054.6	2040.2	2031.7	1996.6	1988.2
45°	1884.4	1872.3	1859.0	1813.0	1785.3
47.5°	1710.4	1708.0	1697.1	1616.2	1588.4
50°	1548.5	1544.9	1506.3	1420.5	1392.7
52.5°	1395.1	1371.0	1320.2	1235.7	1230.9
55°	1240.5	1201.9	1129.4	1073.8	1071.4
57.5°	1077.5	1031.6	957.9	927.7	943.4
60°	947.0	876.9	792.4	796.0	821.4
62.5°	811.8	733.2	649.8	686.1	716.3
65°	698.2	614.8	526.7	597.9	638.9
67.5°	599.1	521.8	437.2	532.7	572.6
70°	517.0	454.2	372.0	472.3	517.0
72.5°	451.8	393.8	329.8	424.0	475.9
75°	391.3	339.4	299.5	373.2	431.2
77.5°	339.4	288.7	270.6	329.8	386.5
80°	285.1	239.2	236.7	287.5	329.8
82.5°	222.3	190.8	190.8	240.4	265.7
85°	157.0	137.7	134.0	175.2	177.6
87.5°	80.9	77.3	70.0	91.8	91.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)