

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: P219168

Luminaire Tested: **24GR-LD5-90-A125-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219168
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-A125-UNV-L935-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7742.7 lumens
Efficiency: N/A
Efficacy: 112.0 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

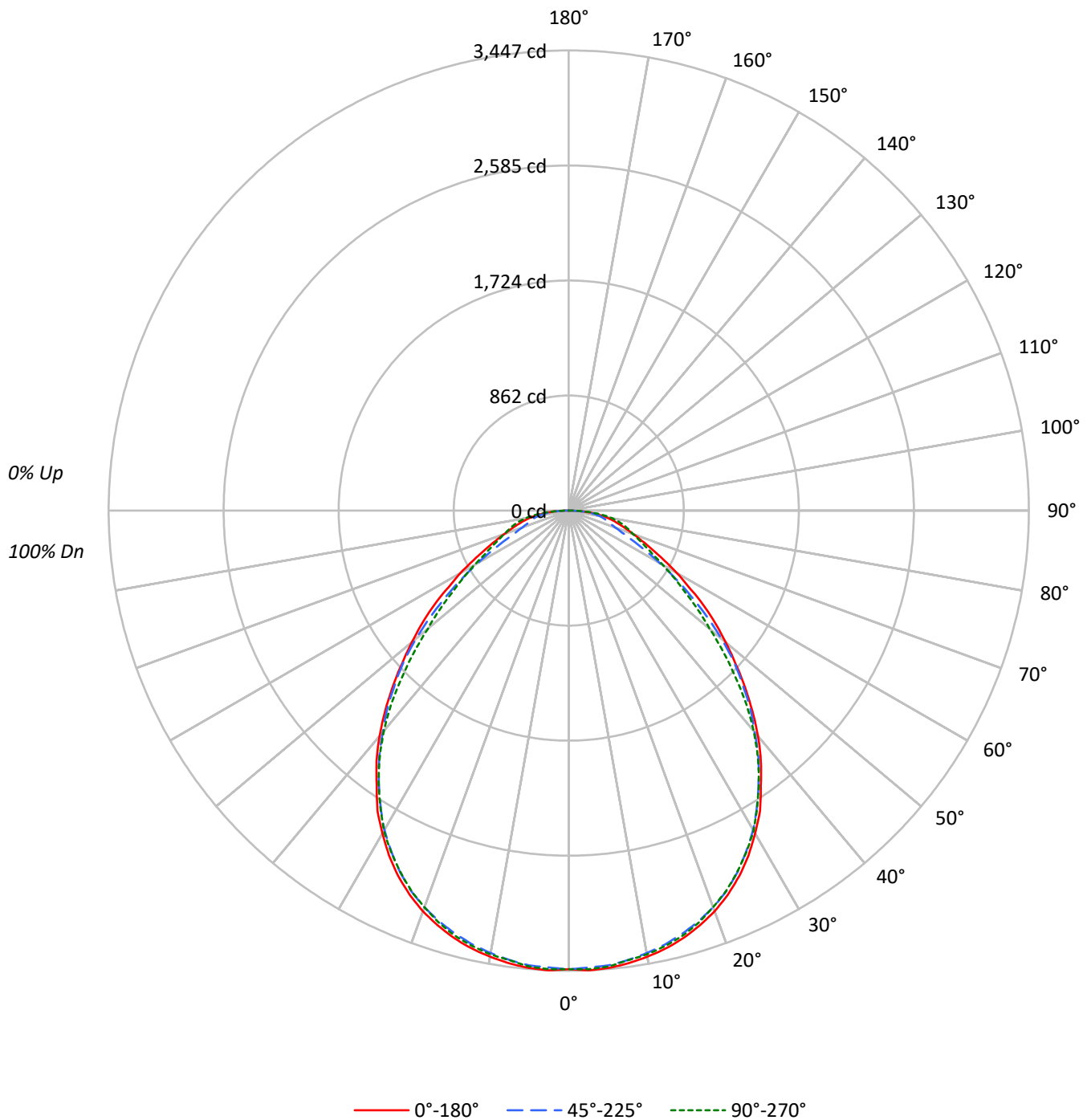
Input Watts (W): 69.117
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5262	5262	5262
5°	5287	5258	5271
10°	5278	5235	5250
15°	5258	5205	5227
20°	5207	5155	5153
25°	5106	5052	5048
30°	4937	4887	4897
35°	4690	4636	4643
40°	4410	4333	4307
45°	4042	3987	3829
50°	3654	3554	3286
55°	3280	2986	2833
60°	2873	2403	2492
65°	2506	1890	2293
70°	2293	1650	2293
75°	2293	1755	2527
80°	2490	2067	2881
85°	2733	2334	3091



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.3	4.2
10°-20°	928.4	12.0
20°-30°	1376.6	17.8
30°-40°	1553.0	20.1
40°-50°	1406.5	18.2
50°-60°	1014.7	13.1
60°-70°	605.9	7.8
70°-80°	374.5	4.8
80°-90°	157.8	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°	2630.3	34.0
0°-40°	4183.3	54.0
0°-60°	6604.6	85.3
0°-90°	7742.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7742.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3435	3435	3435	3435	3435	
5°	3439	3434	3420	3416	3428	327
15°	3316	3295	3282	3284	3297	935
25°	3022	3005	2989	2978	2987	1388
35°	2508	2505	2480	2481	2483	1569
45°	1866	1854	1841	1796	1768	1438
55°	1228	1190	1118	1063	1061	1097
65°	691	609	522	592	633	695
75°	388	336	297	370	427	414
85°	156	136	133	173	176	162
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3435.4	3435.4	3435.4	3435.4	3435.4
2.5°	3447.3	3437.7	3425.8	3433.0	3438.9
5°	3438.9	3434.2	3419.8	3416.2	3428.1
7.5°	3421.0	3409.0	3395.8	3401.9	3397.0
10°	3393.5	3382.7	3366.0	3367.2	3375.5
12.5°	3360.0	3346.8	3328.9	3333.7	3340.8
15°	3315.8	3295.4	3282.3	3283.5	3296.6
17.5°	3259.5	3243.9	3227.2	3230.8	3236.8
20°	3194.9	3186.6	3162.6	3155.5	3161.4
22.5°	3113.5	3098.0	3084.9	3081.2	3082.4
25°	3021.5	3004.8	2989.2	2978.4	2986.8
27.5°	2913.8	2899.4	2879.1	2875.5	2882.7
30°	2791.8	2781.0	2763.1	2758.3	2769.1
32.5°	2667.4	2649.4	2624.4	2624.4	2626.8
35°	2508.4	2504.8	2479.6	2480.8	2483.2
37.5°	2364.8	2348.0	2333.7	2319.3	2326.5
40°	2205.7	2186.5	2167.4	2157.9	2154.2
42.5°	2034.6	2020.3	2012.0	1977.3	1968.9
45°	1866.0	1854.0	1840.8	1795.5	1767.9
47.5°	1693.7	1691.3	1680.6	1600.5	1572.9
50°	1533.5	1529.9	1491.6	1406.7	1379.1
52.5°	1381.6	1357.6	1307.4	1223.7	1218.9
55°	1228.4	1190.2	1118.4	1063.4	1061.0
57.5°	1067.0	1021.5	948.5	918.7	934.2
60°	937.8	868.4	784.6	788.3	813.4
62.5°	803.8	726.1	643.5	679.4	709.3
65°	691.4	608.9	521.6	592.1	632.7
67.5°	593.3	516.7	433.0	527.5	566.9
70°	512.0	449.7	368.4	467.7	512.0
72.5°	447.4	390.0	326.6	419.8	471.3
75°	387.5	336.1	296.6	369.6	427.0
77.5°	336.1	285.9	267.9	326.6	382.8
80°	282.3	236.8	234.4	284.7	326.6
82.5°	220.1	189.0	189.0	238.0	263.2
85°	155.5	136.3	132.8	173.4	175.9
87.5°	80.2	76.6	69.4	90.9	90.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)