

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: P219153

Luminaire Tested: **24GR-LD5-90-A125-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219153
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-L930-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7342.8 lumens
Efficiency: N/A
Efficacy: 106.2 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

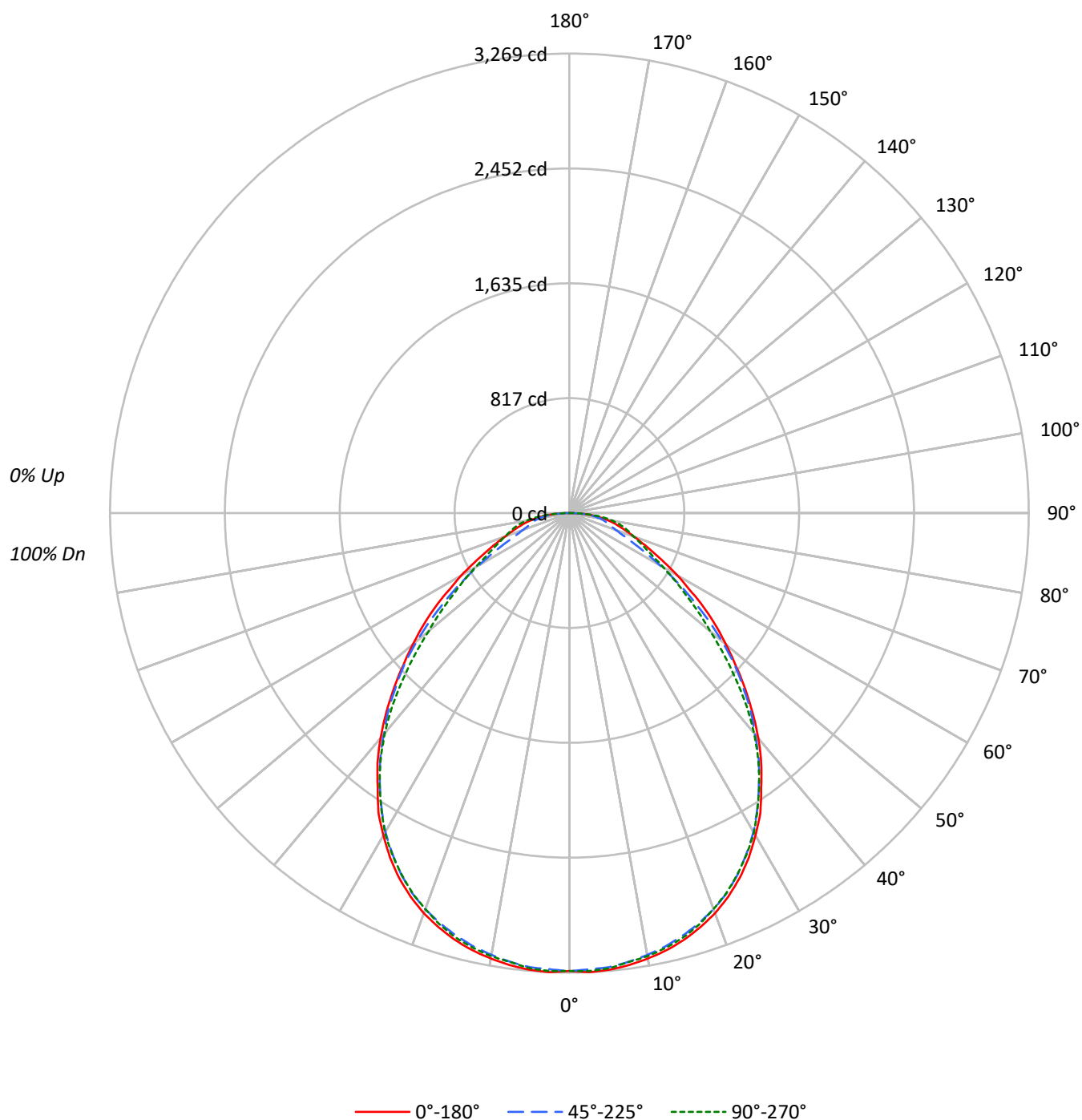
Input Watts (W): 69.117
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4990	4990	4990
5°	5014	4986	4998
10°	5005	4965	4979
15°	4986	4936	4957
20°	4938	4889	4887
25°	4842	4791	4787
30°	4682	4634	4644
35°	4448	4397	4403
40°	4182	4110	4085
45°	3833	3781	3632
50°	3465	3371	3116
55°	3111	2832	2687
60°	2724	2280	2363
65°	2376	1792	2175
70°	2174	1565	2174
75°	2175	1665	2397
80°	2361	1961	2732
85°	2590	2214	2931



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.5	4.2
10°-20°	880.4	12.0
20°-30°	1305.5	17.8
30°-40°	1472.8	20.1
40°-50°	1333.9	18.2
50°-60°	962.3	13.1
60°-70°	574.6	7.8
70°-80°	355.1	4.8
80°-90°	149.6	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°	2494.5	34.0
0°-40°	3967.3	54.0
0°-60°	6263.5	85.3
0°-90°	7342.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7342.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3258	3258	3258	3258	3258	
5°	3261	3257	3243	3240	3251	310
15°	3144	3125	3113	3114	3126	886
25°	2865	2850	2835	2825	2832	1316
35°	2379	2375	2352	2353	2355	1488
45°	1770	1758	1746	1703	1677	1364
55°	1165	1129	1061	1008	1006	1040
65°	656	577	495	562	600	660
75°	368	319	281	350	405	392
85°	147	129	126	164	167	154
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3257.9	3257.9	3257.9	3257.9	3257.9
2.5°	3269.3	3260.2	3248.8	3255.6	3261.3
5°	3261.3	3256.8	3243.2	3239.7	3251.1
7.5°	3244.3	3232.9	3220.5	3226.1	3221.6
10°	3218.3	3208.0	3192.1	3193.2	3201.2
12.5°	3186.4	3174.0	3157.0	3161.5	3168.3
15°	3144.5	3125.2	3112.7	3113.9	3126.3
17.5°	3091.2	3076.4	3060.6	3063.9	3069.6
20°	3029.9	3021.9	2999.3	2992.5	2998.2
22.5°	2952.7	2938.1	2925.5	2922.2	2923.3
25°	2865.4	2849.6	2834.8	2824.6	2832.5
27.5°	2763.3	2749.7	2730.4	2727.1	2733.9
30°	2647.6	2637.4	2620.4	2615.9	2626.0
32.5°	2529.6	2512.6	2488.8	2488.8	2491.1
35°	2378.8	2375.4	2351.6	2352.7	2355.0
37.5°	2242.7	2226.8	2213.2	2199.6	2206.4
40°	2091.8	2073.6	2055.5	2046.4	2043.0
42.5°	1929.5	1915.9	1908.1	1875.1	1867.2
45°	1769.6	1758.2	1745.8	1702.7	1676.6
47.5°	1606.3	1604.0	1593.8	1517.8	1491.7
50°	1454.3	1450.8	1414.6	1334.1	1307.9
52.5°	1310.2	1287.5	1239.8	1160.5	1156.0
55°	1165.0	1128.7	1060.7	1008.4	1006.2
57.5°	1011.9	968.7	899.5	871.2	885.9
60°	889.4	823.5	744.2	747.6	771.4
62.5°	762.3	688.6	610.3	644.4	672.6
65°	655.7	577.4	494.6	561.5	600.1
67.5°	562.7	490.0	410.7	500.3	537.7
70°	485.5	426.6	349.4	443.5	485.5
72.5°	424.3	369.8	309.7	398.2	447.0
75°	367.5	318.7	281.3	350.5	405.0
77.5°	318.7	271.1	254.1	309.7	363.0
80°	267.7	224.6	222.3	269.9	309.7
82.5°	208.7	179.3	179.3	225.7	249.5
85°	147.4	129.3	126.0	164.5	166.8
87.5°	76.0	72.6	65.8	86.2	86.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)