

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: P225907

Luminaire Tested: **14GR-LD5-24-A-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-24-A-UNV-L930-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2000.3 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

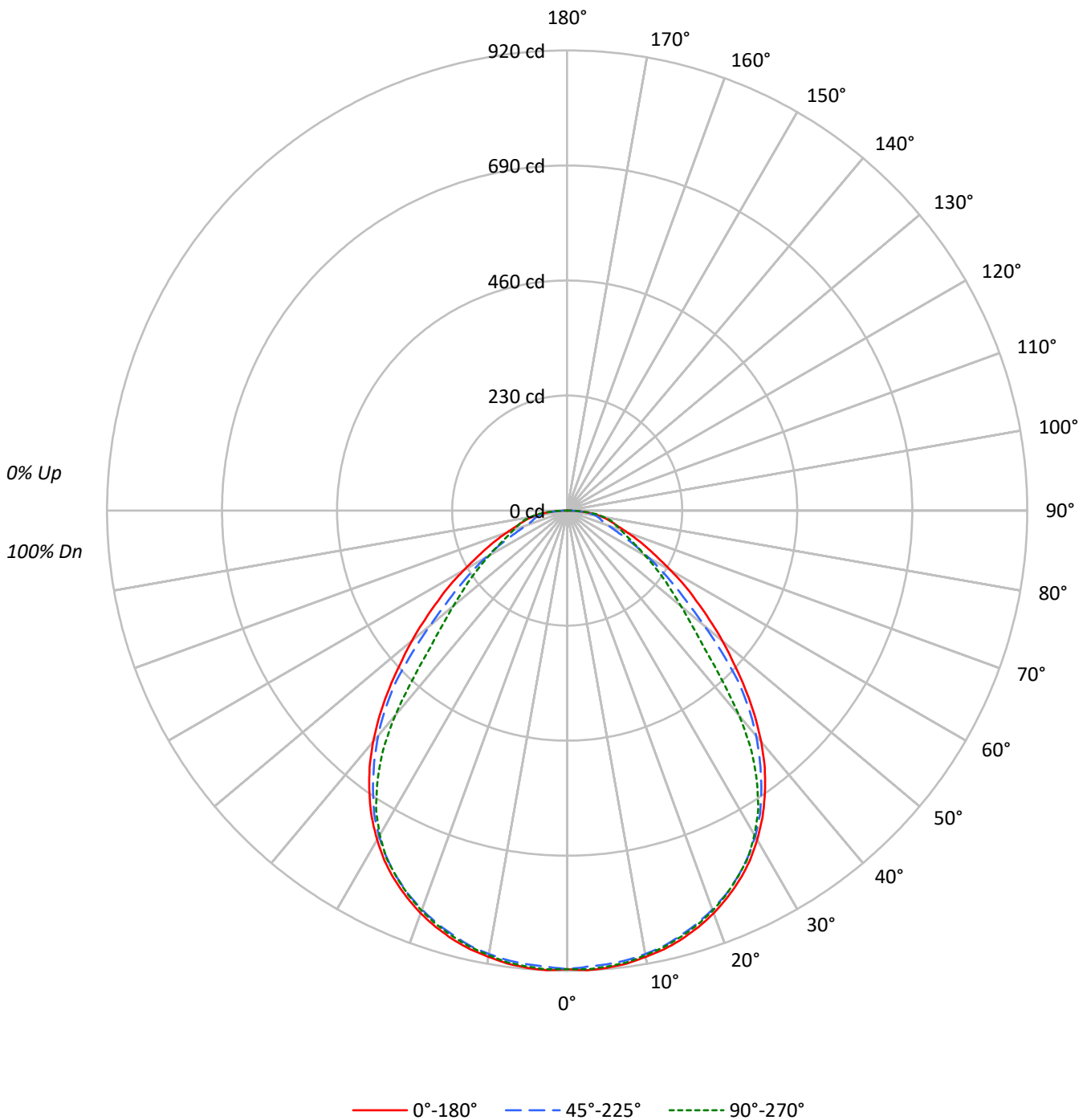
Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3089	3089	3089
5°	3104	3080	3096
10°	3100	3081	3089
15°	3094	3066	3076
20°	3072	3044	3052
25°	3031	3002	3004
30°	2957	2926	2914
35°	2836	2784	2721
40°	2655	2587	2354
45°	2397	2307	1839
50°	2126	1872	1556
55°	1856	1536	1372
60°	1609	1265	1212
65°	1411	1015	1119
70°	1258	860	1126
75°	1228	907	1258
80°	1360	1145	1444
85°	1419	1222	1690



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	4.3
10°-20°	249.1	12.5
20°-30°	372.7	18.6
30°-40°	420.7	21.0
40°-50°	356.9	17.8
50°-60°	241.5	12.1
60°-70°	144.1	7.2
70°-80°	90.3	4.5
80°-90°	38.0	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°	708.8	35.4
0°-40°	1129.5	56.5
0°-60°	1727.9	86.4
0°-90°	2000.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2000.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	917	917	917	917	917	
5°	918	915	911	917	915	87
15°	887	885	879	885	882	250
25°	815	813	807	811	808	375
35°	690	685	677	671	662	430
45°	503	505	484	415	386	388
55°	316	301	262	234	234	285
65°	177	147	127	136	140	177
75°	94	84	70	92	97	101
85°	37	35	32	41	44	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	916.7	916.7	916.7	916.7	916.7
2.5°	919.9	917.1	912.9	918.5	918.0
5°	917.6	914.7	910.6	917.1	915.2
7.5°	913.4	911.1	906.9	912.9	911.1
10°	905.9	904.1	900.4	905.4	902.7
12.5°	898.1	896.6	892.0	896.6	893.8
15°	886.9	885.0	879.0	885.0	881.8
17.5°	873.0	870.7	865.5	870.7	867.8
20°	856.7	853.9	848.8	853.9	851.1
22.5°	837.2	834.9	830.2	834.9	831.2
25°	815.3	812.6	807.4	811.2	807.9
27.5°	790.2	786.5	781.9	784.7	782.9
30°	760.0	755.4	752.1	752.1	748.9
32.5°	727.1	723.8	718.3	715.0	710.8
35°	689.5	684.8	676.9	670.9	661.6
37.5°	649.1	643.4	633.7	618.4	605.8
40°	603.5	596.5	588.1	557.9	535.2
42.5°	554.7	553.4	538.9	487.4	455.8
45°	503.1	505.0	484.1	414.8	386.0
47.5°	451.1	457.6	419.5	351.7	336.8
50°	405.6	407.9	357.2	305.2	296.9
52.5°	358.6	354.9	304.8	268.5	262.5
55°	315.9	301.0	261.5	234.1	233.6
57.5°	278.3	250.9	223.4	203.0	205.3
60°	238.8	208.2	187.7	176.5	179.8
62.5°	203.9	174.7	156.5	153.3	158.9
65°	177.0	146.8	127.3	135.6	140.3
67.5°	151.5	125.9	103.6	123.6	125.4
70°	127.7	109.1	87.3	113.8	114.3
72.5°	108.2	96.6	75.7	103.2	104.5
75°	94.3	84.1	69.7	92.0	96.6
77.5°	82.7	72.0	64.6	79.4	87.3
80°	70.1	58.1	59.0	66.4	74.4
82.5°	53.9	45.1	46.9	54.8	60.4
85°	36.7	34.9	31.6	40.9	43.7
87.5°	19.5	18.6	16.3	23.2	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)