

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: P225852

Luminaire Tested: **14GR-LD5-24-A125-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-24-A125-UNV-L930-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2002.0 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

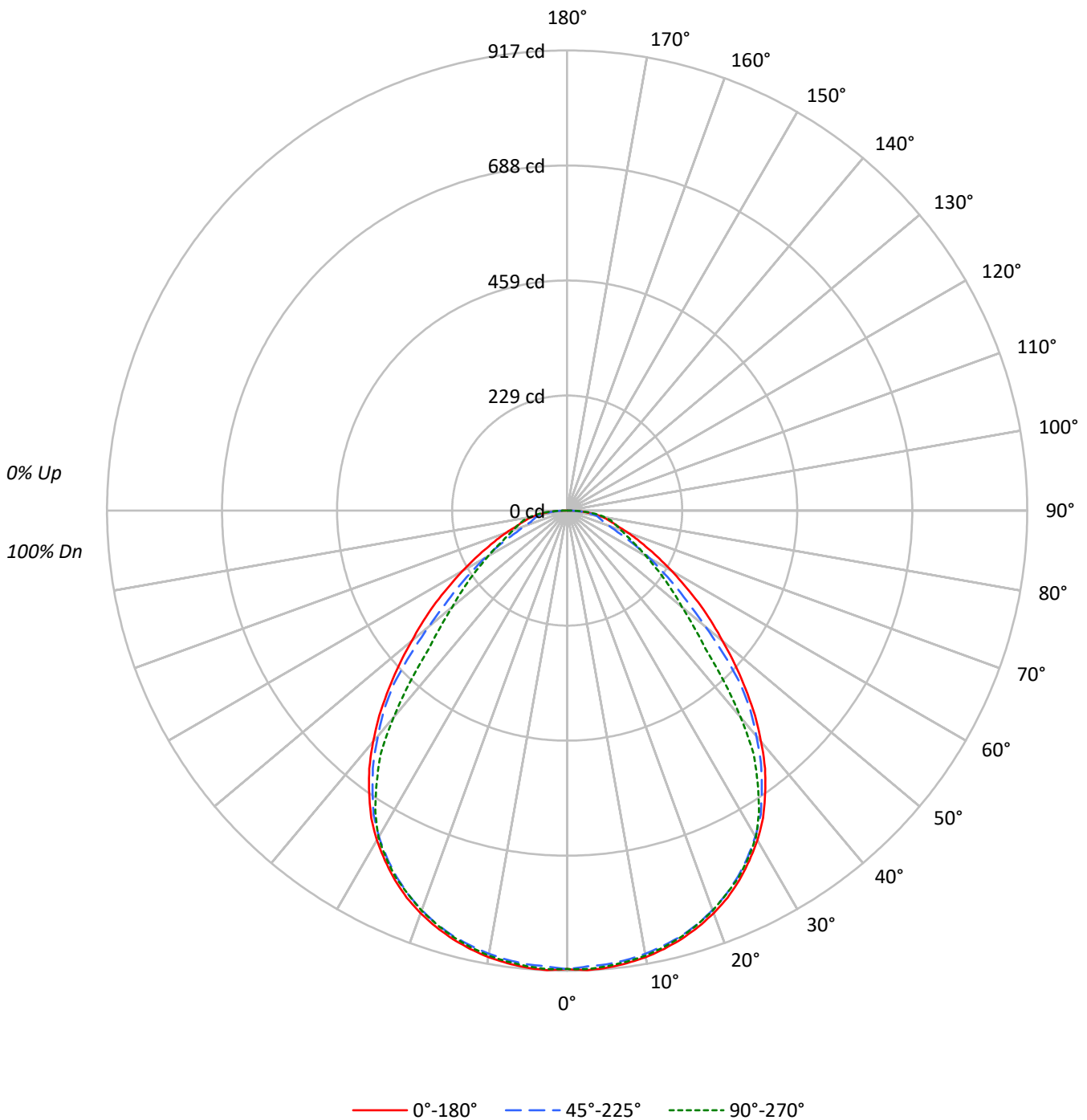
Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	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	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3078	3078	3078
5°	3093	3070	3084
10°	3092	3068	3081
15°	3082	3062	3067
20°	3061	3038	3041
25°	3020	2993	3001
30°	2951	2919	2926
35°	2829	2782	2722
40°	2645	2580	2368
45°	2395	2326	1857
50°	2118	1882	1565
55°	1875	1547	1381
60°	1618	1280	1224
65°	1407	1018	1126
70°	1272	874	1126
75°	1221	913	1258
80°	1360	1162	1469
85°	1438	1237	1759



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	4.3
10°-20°	248.3	12.4
20°-30°	371.7	18.6
30°-40°	420.7	21.0
40°-50°	358.4	17.9
50°-60°	242.6	12.1
60°-70°	144.9	7.2
70°-80°	90.5	4.5
80°-90°	38.3	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°	706.7	35.3
0°-40°	1127.4	56.3
0°-60°	1728.4	86.3
0°-90°	2002.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2002.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	914	914	914	914	914	
5°	914	912	908	913	912	87
15°	883	880	878	883	879	249
25°	812	810	805	809	807	374
35°	688	684	676	669	662	429
45°	503	504	488	416	390	388
55°	319	302	263	235	235	285
65°	176	147	128	136	141	178
75°	94	84	70	92	97	101
85°	37	34	32	40	46	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	913.6	913.6	913.6	913.6	913.6
2.5°	916.8	914.5	909.3	915.4	914.5
5°	914.5	912.2	907.5	913.1	911.7
7.5°	909.8	907.5	903.4	908.9	906.6
10°	903.8	901.0	896.8	902.9	900.6
12.5°	894.5	891.8	888.0	894.1	890.8
15°	883.4	880.1	877.8	883.4	879.2
17.5°	869.9	867.1	863.9	869.4	864.8
20°	853.7	851.3	847.2	850.4	848.1
22.5°	835.1	831.8	827.7	831.3	828.1
25°	812.3	810.0	804.9	808.6	807.2
27.5°	786.3	784.9	778.9	783.5	781.2
30°	758.5	754.7	750.1	751.5	751.9
32.5°	726.4	721.8	718.0	714.8	711.6
35°	687.8	683.7	676.2	669.2	661.8
37.5°	647.9	642.3	634.9	619.6	610.3
40°	601.4	598.7	586.6	565.2	538.3
42.5°	554.1	551.3	540.6	492.8	463.5
45°	502.6	503.9	488.1	416.2	389.7
47.5°	453.3	457.0	422.6	355.3	341.4
50°	404.0	408.3	359.0	307.0	298.6
52.5°	360.9	357.6	306.1	269.3	265.7
55°	319.1	301.5	263.4	235.0	235.0
57.5°	276.3	251.2	223.9	205.8	205.8
60°	240.1	209.0	190.0	177.9	181.6
62.5°	206.7	173.7	157.5	155.1	159.8
65°	176.5	147.2	127.7	136.5	141.2
67.5°	151.9	125.8	105.0	123.5	126.3
70°	129.1	109.6	88.7	113.8	114.3
72.5°	108.2	96.6	76.2	103.1	105.0
75°	93.8	84.1	70.1	92.0	96.6
77.5°	82.2	72.0	64.6	79.4	88.2
80°	70.1	59.0	59.9	66.9	75.7
82.5°	53.9	45.5	47.4	54.8	61.8
85°	37.2	34.4	32.0	40.4	45.5
87.5°	20.0	18.6	16.3	22.7	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)