

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: P225866

Luminaire Tested: **14GR-LD5-24-A125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P225866  
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-L940-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: 2145.7 lumens  
Efficiency: N/A  
Efficacy: 102.2 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

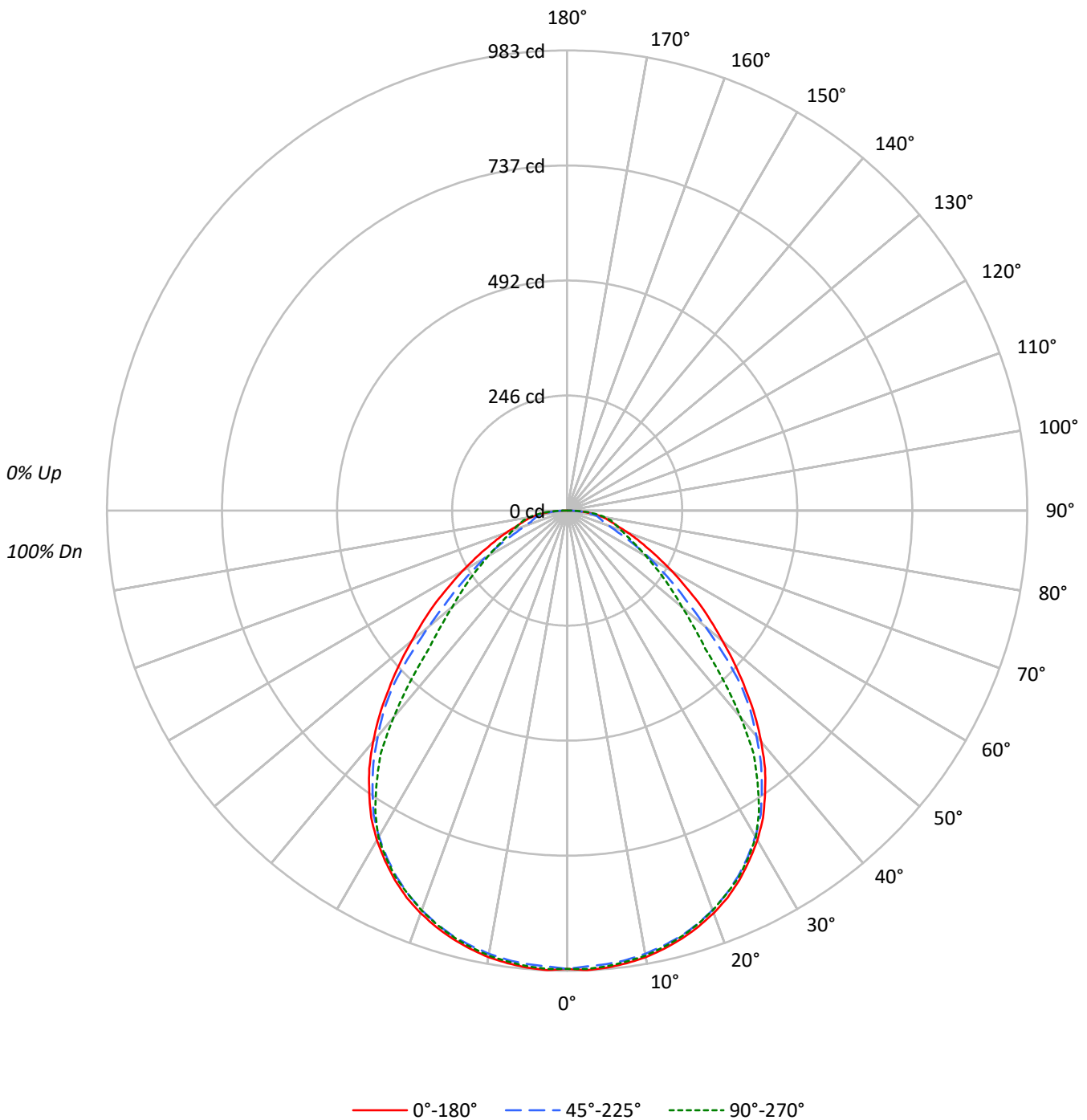
Input Watts (W): 21  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3299	3299	3299
5°	3315	3290	3305
10°	3314	3289	3302
15°	3303	3282	3287
20°	3281	3256	3259
25°	3237	3207	3217
30°	3163	3128	3136
35°	3032	2981	2918
40°	2836	2765	2538
45°	2567	2493	1990
50°	2270	2017	1678
55°	2009	1658	1480
60°	1735	1372	1311
65°	1509	1092	1207
70°	1364	937	1207
75°	1308	979	1347
80°	1459	1246	1574
85°	1539	1326	1887



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.9	4.3
10°-20°	266.2	12.4
20°-30°	398.3	18.6
30°-40°	450.9	21.0
40°-50°	384.1	17.9
50°-60°	260.1	12.1
60°-70°	155.3	7.2
70°-80°	97.0	4.5
80°-90°	41.0	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°	757.4	35.3
0°-40°	1208.3	56.3
0°-60°	1852.4	86.3
0°-90°	2145.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2145.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	979	979	979	979	979	
5°	980	978	973	979	977	93
15°	947	943	941	947	942	267
25°	871	868	863	867	865	400
35°	737	733	725	717	709	460
45°	539	540	523	446	418	415
55°	342	323	282	252	252	306
65°	189	158	137	146	151	191
75°	100	90	75	99	104	109
85°	40	37	34	43	49	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	979.1	979.1	979.1	979.1	979.1
2.5°	982.6	980.1	974.6	981.2	980.1
5°	980.1	977.6	972.7	978.7	977.1
7.5°	975.2	972.7	968.2	974.2	971.7
10°	968.7	965.7	961.2	967.7	965.2
12.5°	958.7	955.7	951.8	958.2	954.8
15°	946.8	943.3	940.8	946.8	942.3
17.5°	932.3	929.4	925.9	931.9	926.9
20°	915.0	912.5	908.0	911.4	908.9
22.5°	895.0	891.6	887.1	891.0	887.5
25°	870.7	868.2	862.7	866.6	865.2
27.5°	842.7	841.3	834.8	839.8	837.3
30°	812.9	808.9	803.9	805.4	805.9
32.5°	778.6	773.6	769.6	766.1	762.6
35°	737.2	732.7	724.8	717.3	709.3
37.5°	694.4	688.4	680.5	664.1	654.1
40°	644.7	641.6	628.7	605.8	577.0
42.5°	593.8	590.9	579.5	528.1	496.8
45°	538.6	540.1	523.1	446.0	417.6
47.5°	485.8	489.9	453.0	380.8	365.8
50°	433.1	437.6	384.8	329.0	320.1
52.5°	386.7	383.3	328.0	288.7	284.7
55°	342.0	323.1	282.3	251.9	251.9
57.5°	296.2	269.3	239.9	220.5	220.5
60°	257.4	224.0	203.6	190.7	194.6
62.5°	221.5	186.2	168.7	166.2	171.2
65°	189.2	157.8	136.9	146.4	151.4
67.5°	162.8	134.9	112.5	132.4	135.4
70°	138.4	117.5	95.1	121.9	122.5
72.5°	116.0	103.5	81.6	110.5	112.5
75°	100.5	90.1	75.2	98.6	103.5
77.5°	88.2	77.1	69.2	85.1	94.6
80°	75.2	63.2	64.2	71.7	81.1
82.5°	57.7	48.8	50.7	58.7	66.2
85°	39.8	36.8	34.3	43.3	48.8
87.5°	21.4	20.0	17.5	24.4	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)