

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: P291191

Luminaire Tested: **14GR-LD5-24-A125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P291191  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-24-A125-UNV-L82765-W2A1-U-3500K  
Description: GRLED 1x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2384.0 lumens  
Efficiency: N/A  
Efficacy: 130.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

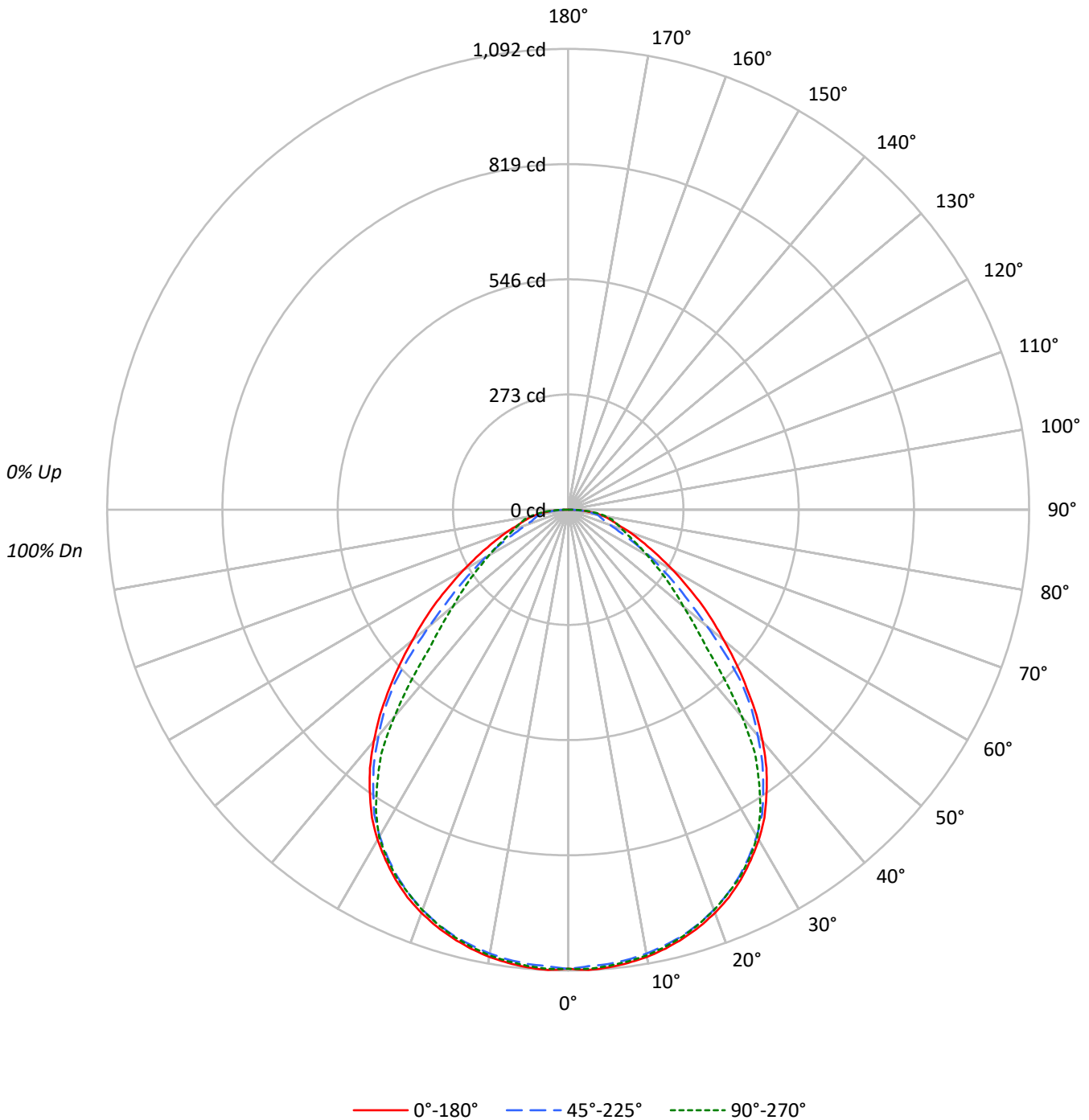
Input Watts (W): 18.321  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P291191

CATALOG NUMBER: 14GR-LD5-24-A125-UNV-L82765-W2A1-U-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P291191

CATALOG NUMBER: 14GR-LD5-24-A125-UNV-L82765-W2A1-U-3500K

**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°	2928	2928	2928
5°	2942	2919	2933
10°	2941	2918	2930
15°	2930	2912	2917
20°	2911	2889	2892
25°	2872	2846	2854
30°	2806	2775	2782
35°	2691	2645	2589
40°	2516	2454	2252
45°	2277	2212	1766
50°	2015	1790	1489
55°	1783	1471	1313
60°	1539	1217	1164
65°	1338	968	1070
70°	1210	831	1071
75°	1161	868	1196
80°	1294	1105	1398
85°	1365	1179	1673



TEST NUMBER: P291191

CATALOG NUMBER: 14GR-LD5-24-A125-UNV-L82765-W2A1-U-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.2	4.3
10°-20°	295.7	12.4
20°-30°	442.6	18.6
30°-40°	501.0	21.0
40°-50°	426.7	17.9
50°-60°	288.9	12.1
60°-70°	172.5	7.2
70°-80°	107.8	4.5
80°-90°	45.6	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°	841.5	35.3
0°-40°	1342.5	56.3
0°-60°	2058.2	86.3
0°-90°	2384.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2384.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1088	1088	1088	1088	1088	
5°	1089	1086	1081	1087	1086	104
15°	1052	1048	1045	1052	1047	297
25°	967	965	958	963	961	445
35°	819	814	805	797	788	511
45°	598	600	581	496	464	462
55°	380	359	314	280	280	340
65°	210	175	152	163	168	212
75°	112	100	84	110	115	121
85°	44	41	38	48	54	47
90°	0	0	0	0	0	



TEST NUMBER: P291191

CATALOG NUMBER: 14GR-LD5-24-A125-UNV-L82765-W2A1-U-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1087.9	1087.9	1087.9	1087.9	1087.9
2.5°	1091.8	1089.0	1082.9	1090.1	1089.0
5°	1089.0	1086.2	1080.7	1087.3	1085.7
7.5°	1083.5	1080.7	1075.7	1082.4	1079.6
10°	1076.3	1073.0	1068.0	1075.2	1072.4
12.5°	1065.2	1061.9	1057.5	1064.7	1060.8
15°	1051.9	1048.1	1045.3	1051.9	1047.0
17.5°	1035.9	1032.6	1028.7	1035.4	1029.8
20°	1016.5	1013.8	1008.8	1012.7	1009.9
22.5°	994.4	990.6	985.6	990.0	986.1
25°	967.3	964.6	958.5	962.9	961.2
27.5°	936.4	934.7	927.5	933.0	930.3
30°	903.2	898.7	893.2	894.9	895.4
32.5°	865.0	859.5	855.1	851.2	847.3
35°	819.1	814.1	805.3	797.0	788.1
37.5°	771.5	764.9	756.1	737.8	726.7
40°	716.2	712.9	698.5	673.1	641.0
42.5°	659.8	656.5	643.8	586.8	552.0
45°	598.4	600.1	581.3	495.6	464.0
47.5°	539.8	544.2	503.3	423.1	406.5
50°	481.2	486.2	427.5	365.6	355.6
52.5°	429.7	425.9	364.5	320.8	316.4
55°	380.0	358.9	313.6	279.9	279.9
57.5°	329.1	299.2	266.6	245.0	245.0
60°	285.9	248.9	226.2	211.8	216.3
62.5°	246.1	206.8	187.5	184.7	190.3
65°	210.2	175.3	152.1	162.6	168.1
67.5°	180.9	149.9	125.0	147.1	150.4
70°	153.8	130.5	105.6	135.5	136.1
72.5°	128.9	115.0	90.7	122.8	125.0
75°	111.7	100.1	83.5	109.5	115.0
77.5°	97.9	85.7	76.9	94.6	105.1
80°	83.5	70.2	71.3	79.6	90.2
82.5°	64.2	54.2	56.4	65.3	73.6
85°	44.2	40.9	38.2	48.1	54.2
87.5°	23.8	22.1	19.4	27.1	27.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)