

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: P291298

Luminaire Tested: **14GR-LD5-28-A125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291298
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-LD5-28-A125-UNV-L92765-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2494.0 lumens
Efficiency: N/A
Efficacy: 111.7 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

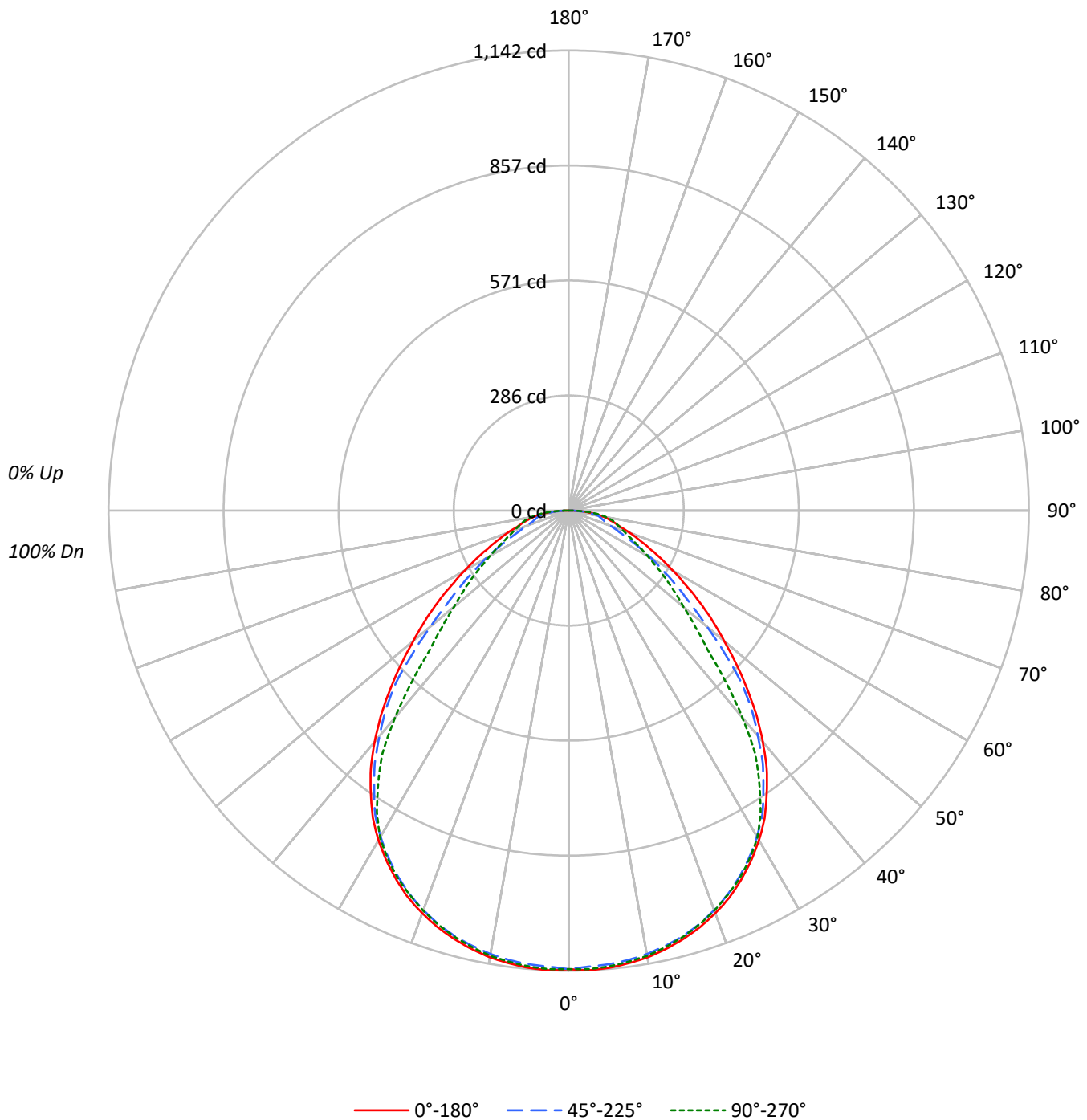
Input Watts (W): 22.32
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10	50	30	10		
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°	3063	3063	3063
5°	3077	3054	3068
10°	3077	3053	3066
15°	3066	3046	3051
20°	3046	3022	3025
25°	3005	2977	2986
30°	2936	2903	2911
35°	2815	2767	2709
40°	2632	2567	2356
45°	2382	2314	1847
50°	2107	1873	1557
55°	1865	1539	1374
60°	1610	1273	1217
65°	1400	1013	1120
70°	1265	869	1120
75°	1215	909	1251
80°	1354	1156	1461
85°	1430	1232	1751



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.0	4.3
10°-20°	309.4	12.4
20°-30°	463.0	18.6
30°-40°	524.1	21.0
40°-50°	446.4	17.9
50°-60°	302.3	12.1
60°-70°	180.5	7.2
70°-80°	112.7	4.5
80°-90°	47.7	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°	880.3	35.3
0°-40°	1404.4	56.3
0°-60°	2153.1	86.3
0°-90°	2494.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2494.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1138	1138	1138	1138	1138	
5°	1139	1136	1131	1138	1136	108
15°	1100	1096	1094	1100	1095	310
25°	1012	1009	1003	1007	1006	465
35°	857	852	842	834	824	534
45°	626	628	608	518	485	483
55°	398	376	328	293	293	355
65°	220	183	159	170	176	222
75°	117	105	87	115	120	126
85°	46	43	40	50	57	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1138.1	1138.1	1138.1	1138.1	1138.1
2.5°	1142.1	1139.2	1132.9	1140.4	1139.2
5°	1139.2	1136.4	1130.6	1137.5	1135.8
7.5°	1133.5	1130.6	1125.4	1132.3	1129.4
10°	1125.9	1122.5	1117.3	1124.8	1121.9
12.5°	1114.4	1110.9	1106.3	1113.8	1109.7
15°	1100.5	1096.4	1093.5	1100.5	1095.3
17.5°	1083.7	1080.2	1076.2	1083.1	1077.3
20°	1063.5	1060.6	1055.4	1059.4	1056.5
22.5°	1040.3	1036.3	1031.1	1035.7	1031.6
25°	1012.0	1009.1	1002.7	1007.3	1005.6
27.5°	979.6	977.8	970.3	976.1	973.2
30°	944.8	940.2	934.4	936.2	936.7
32.5°	904.9	899.1	894.5	890.5	886.4
35°	856.9	851.7	842.4	833.8	824.5
37.5°	807.1	800.2	790.9	771.8	760.3
40°	749.3	745.8	730.8	704.1	670.6
42.5°	690.3	686.8	673.5	613.9	577.4
45°	626.0	627.8	608.1	518.4	485.4
47.5°	564.7	569.3	526.5	442.6	425.3
50°	503.4	508.6	447.3	382.4	372.0
52.5°	449.6	445.5	381.3	335.6	331.0
55°	397.5	375.5	328.1	292.8	292.8
57.5°	344.3	313.0	278.9	256.3	256.3
60°	299.1	260.4	236.6	221.6	226.2
62.5°	257.5	216.4	196.1	193.2	199.0
65°	219.9	183.4	159.1	170.1	175.9
67.5°	189.2	156.8	130.8	153.9	157.4
70°	160.8	136.5	110.5	141.8	142.3
72.5°	134.8	120.3	94.9	128.4	130.8
75°	116.9	104.7	87.4	114.6	120.3
77.5°	102.4	89.7	80.4	98.9	109.9
80°	87.4	73.5	74.6	83.3	94.3
82.5°	67.1	56.7	59.0	68.3	77.0
85°	46.3	42.8	39.9	50.3	56.7
87.5°	24.9	23.1	20.3	28.4	28.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)