

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: P291296

Luminaire Tested: **14GR-LD5-28-A125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291296
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-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2284.0 lumens
Efficiency: N/A
Efficacy: 103.2 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

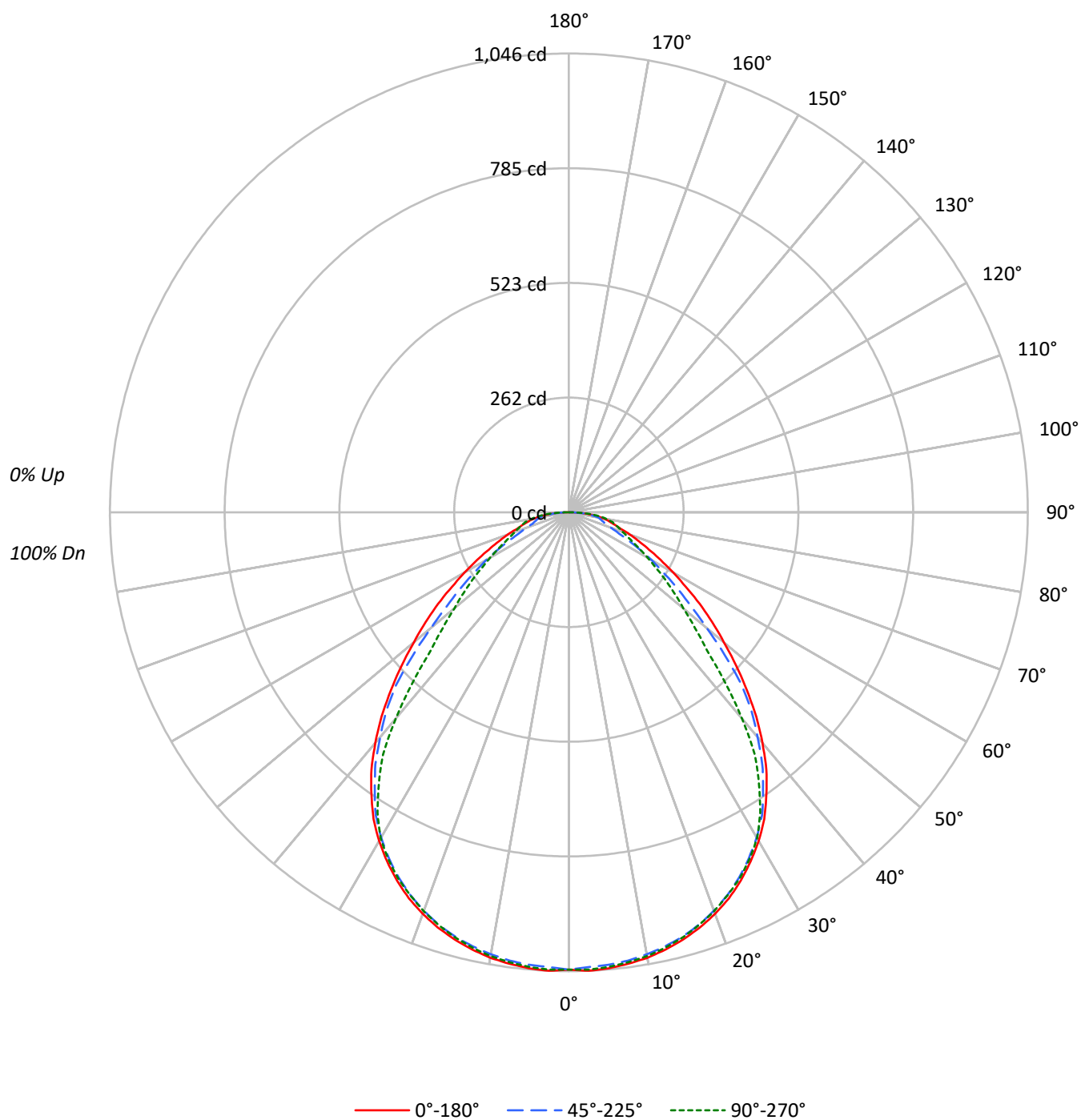
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	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
1	110	106	102	98	107	103	100	97		99	96	94		95	93	91		92	90	88
2	101	94	88	82	99	92	86	82		88	84	80		85	81	78		82	79	76
3	93	84	76	70	91	82	75	70		79	73	69		77	72	67		74	70	66
4	86	75	67	61	84	74	66	61		71	65	60		69	64	59		67	62	58
5	80	68	60	54	78	67	59	53		65	58	53		63	57	52		61	56	52
6	74	62	54	48	72	61	53	47		59	52	47		58	51	47		56	51	46
7	69	56	48	43	67	56	48	42		54	47	42		53	47	42		52	46	42
8	65	52	44	38	63	51	44	38		50	43	38		49	42	38		48	42	38
9	60	48	40	35	59	47	40	35		46	39	35		45	39	34		44	38	34
10	57	44	37	32	56	44	37	32		43	36	32		42	36	32		41	35	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2805	2805	2805
5°	2818	2797	2810
10°	2817	2796	2807
15°	2808	2790	2795
20°	2789	2768	2771
25°	2752	2727	2734
30°	2689	2659	2666
35°	2578	2534	2481
40°	2410	2351	2157
45°	2182	2119	1692
50°	1930	1715	1426
55°	1708	1409	1258
60°	1474	1166	1115
65°	1282	928	1026
70°	1159	796	1025
75°	1112	832	1146
80°	1240	1060	1339
85°	1309	1130	1602



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	4.3
10°-20°	283.3	12.4
20°-30°	424.0	18.6
30°-40°	480.0	21.0
40°-50°	408.8	17.9
50°-60°	276.8	12.1
60°-70°	165.3	7.2
70°-80°	103.3	4.5
80°-90°	43.6	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°	806.2	35.3
0°-40°	1286.2	56.3
0°-60°	1971.8	86.3
0°-90°	2284.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2284.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1042	1042	1042	1042	1042	
5°	1043	1041	1035	1042	1040	99
15°	1008	1004	1002	1008	1003	284
25°	927	924	918	922	921	426
35°	785	780	772	764	755	489
45°	573	575	557	475	445	442
55°	364	344	300	268	268	325
65°	201	168	146	156	161	203
75°	107	96	80	105	110	116
85°	42	39	37	46	52	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1042.3	1042.3	1042.3	1042.3	1042.3
2.5°	1046.0	1043.3	1037.5	1044.4	1043.3
5°	1043.3	1040.7	1035.4	1041.7	1040.1
7.5°	1038.0	1035.4	1030.6	1037.0	1034.3
10°	1031.1	1028.0	1023.2	1030.1	1027.4
12.5°	1020.5	1017.4	1013.1	1020.0	1016.3
15°	1007.8	1004.1	1001.5	1007.8	1003.1
17.5°	992.5	989.3	985.6	991.9	986.6
20°	973.9	971.3	966.5	970.2	967.5
22.5°	952.7	949.0	944.2	948.5	944.8
25°	926.7	924.1	918.3	922.5	920.9
27.5°	897.1	895.5	888.6	893.9	891.2
30°	865.3	861.0	855.7	857.3	857.9
32.5°	828.7	823.4	819.2	815.5	811.8
35°	784.7	780.0	771.5	763.5	755.1
37.5°	739.2	732.8	724.3	706.9	696.3
40°	686.2	683.0	669.2	644.9	614.1
42.5°	632.1	629.0	616.8	562.2	528.8
45°	573.3	574.9	556.9	474.8	444.6
47.5°	517.2	521.4	482.2	405.4	389.5
50°	461.0	465.8	409.6	350.2	340.7
52.5°	411.7	408.0	349.2	307.3	303.1
55°	364.0	343.9	300.4	268.1	268.1
57.5°	315.3	286.7	255.4	234.7	234.7
60°	273.9	238.4	216.7	202.9	207.2
62.5°	235.8	198.2	179.6	177.0	182.3
65°	201.4	168.0	145.7	155.8	161.1
67.5°	173.3	143.6	119.8	140.9	144.1
70°	147.3	125.1	101.2	129.8	130.3
72.5°	123.5	110.2	86.9	117.6	119.8
75°	107.0	95.9	80.0	104.9	110.2
77.5°	93.8	82.1	73.7	90.6	100.7
80°	80.0	67.3	68.4	76.3	86.4
82.5°	61.5	51.9	54.0	62.5	70.5
85°	42.4	39.2	36.6	46.1	51.9
87.5°	22.8	21.2	18.5	26.0	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)