

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: P291294

Luminaire Tested: **14GR-LD5-24-A125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291294
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-L92765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2302.0 lumens
Efficiency: N/A
Efficacy: 122.5 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

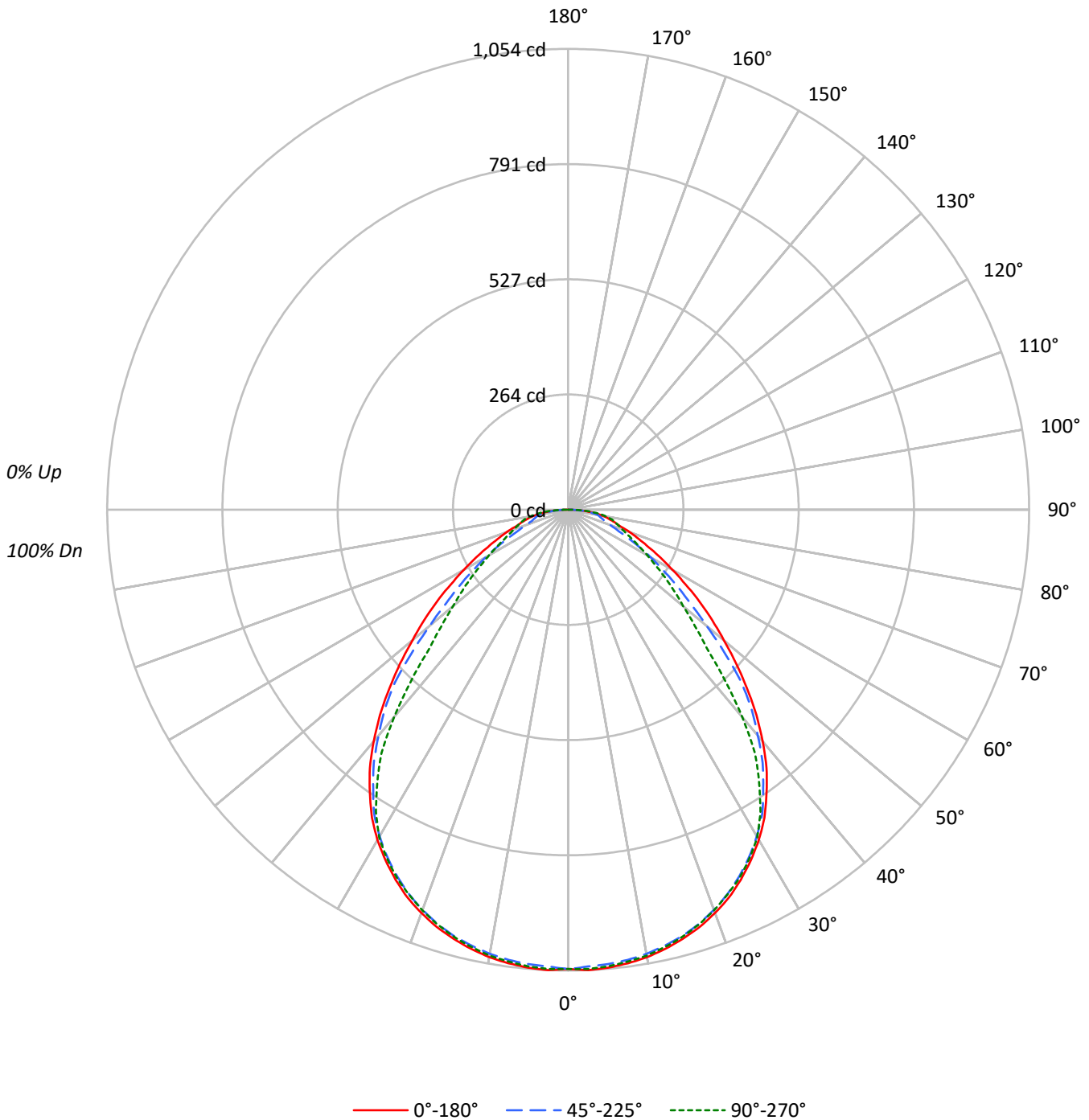
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291294

CATALOG NUMBER: 14GR-LD5-24-A125-UNV-L92765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P291294

CATALOG NUMBER: 14GR-LD5-24-A125-UNV-L92765-W2A1-U-5700K

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°	2827	2827	2827
5°	2840	2819	2832
10°	2840	2818	2829
15°	2830	2812	2817
20°	2811	2790	2793
25°	2773	2748	2756
30°	2710	2680	2687
35°	2598	2554	2500
40°	2429	2369	2174
45°	2199	2136	1705
50°	1945	1728	1438
55°	1721	1421	1268
60°	1486	1175	1124
65°	1292	935	1034
70°	1168	803	1034
75°	1122	838	1155
80°	1249	1068	1350
85°	1318	1136	1615



TEST NUMBER: P291294

CATALOG NUMBER: 14GR-LD5-24-A125-UNV-L92765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	4.3
10°-20°	285.6	12.4
20°-30°	427.4	18.6
30°-40°	483.8	21.0
40°-50°	412.1	17.9
50°-60°	279.0	12.1
60°-70°	166.6	7.2
70°-80°	104.1	4.5
80°-90°	44.0	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°	812.5	35.3
0°-40°	1296.3	56.3
0°-60°	1987.3	86.3
0°-90°	2302.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2302.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1050	1050	1050	1050	1050	
5°	1052	1049	1044	1050	1048	100
15°	1016	1012	1009	1016	1011	287
25°	934	931	926	930	928	430
35°	791	786	778	770	761	493
45°	578	579	561	478	448	446
55°	367	347	303	270	270	328
65°	203	169	147	157	162	205
75°	108	97	81	106	111	116
85°	43	40	37	46	52	46
90°	0	0	0	0	0	



TEST NUMBER: P291294

CATALOG NUMBER: 14GR-LD5-24-A125-UNV-L92765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1050.5	1050.5	1050.5	1050.5	1050.5
2.5°	1054.2	1051.5	1045.7	1052.6	1051.5
5°	1051.5	1048.9	1043.5	1049.9	1048.3
7.5°	1046.2	1043.5	1038.7	1045.1	1042.5
10°	1039.3	1036.1	1031.2	1038.2	1035.5
12.5°	1028.6	1025.4	1021.1	1028.0	1024.3
15°	1015.8	1012.0	1009.4	1015.8	1011.0
17.5°	1000.3	997.1	993.3	999.7	994.4
20°	981.6	978.9	974.1	977.8	975.2
22.5°	960.2	956.5	951.7	955.9	952.2
25°	934.1	931.4	925.5	929.8	928.2
27.5°	904.1	902.5	895.6	900.9	898.3
30°	872.1	867.8	862.5	864.1	864.6
32.5°	835.3	829.9	825.6	821.9	818.2
35°	790.9	786.1	777.6	769.6	761.0
37.5°	745.0	738.6	730.0	712.4	701.7
40°	691.6	688.4	674.5	649.9	619.0
42.5°	637.1	633.9	621.6	566.6	533.0
45°	577.8	579.4	561.3	478.5	448.1
47.5°	521.2	525.5	486.0	408.5	392.5
50°	464.6	469.4	412.8	353.0	343.4
52.5°	415.0	411.2	351.9	309.7	305.5
55°	366.9	346.6	302.8	270.2	270.2
57.5°	317.8	288.9	257.4	236.6	236.6
60°	276.1	240.3	218.4	204.5	208.8
62.5°	237.7	199.7	181.0	178.4	183.7
65°	202.9	169.3	146.9	157.0	162.4
67.5°	174.6	144.7	120.7	142.1	145.3
70°	148.5	126.0	102.0	130.8	131.4
72.5°	124.4	111.1	87.6	118.6	120.7
75°	107.9	96.7	80.6	105.7	111.1
77.5°	94.5	82.8	74.2	91.3	101.5
80°	80.6	67.8	68.9	76.9	87.1
82.5°	61.9	52.3	54.5	63.0	71.0
85°	42.7	39.5	36.8	46.5	52.3
87.5°	23.0	21.4	18.7	26.2	26.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)