

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: P291150

Luminaire Tested: **14GR-LD5-24-A125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291150
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-L83050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2307.0 lumens
Efficiency: N/A
Efficacy: 126.6 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

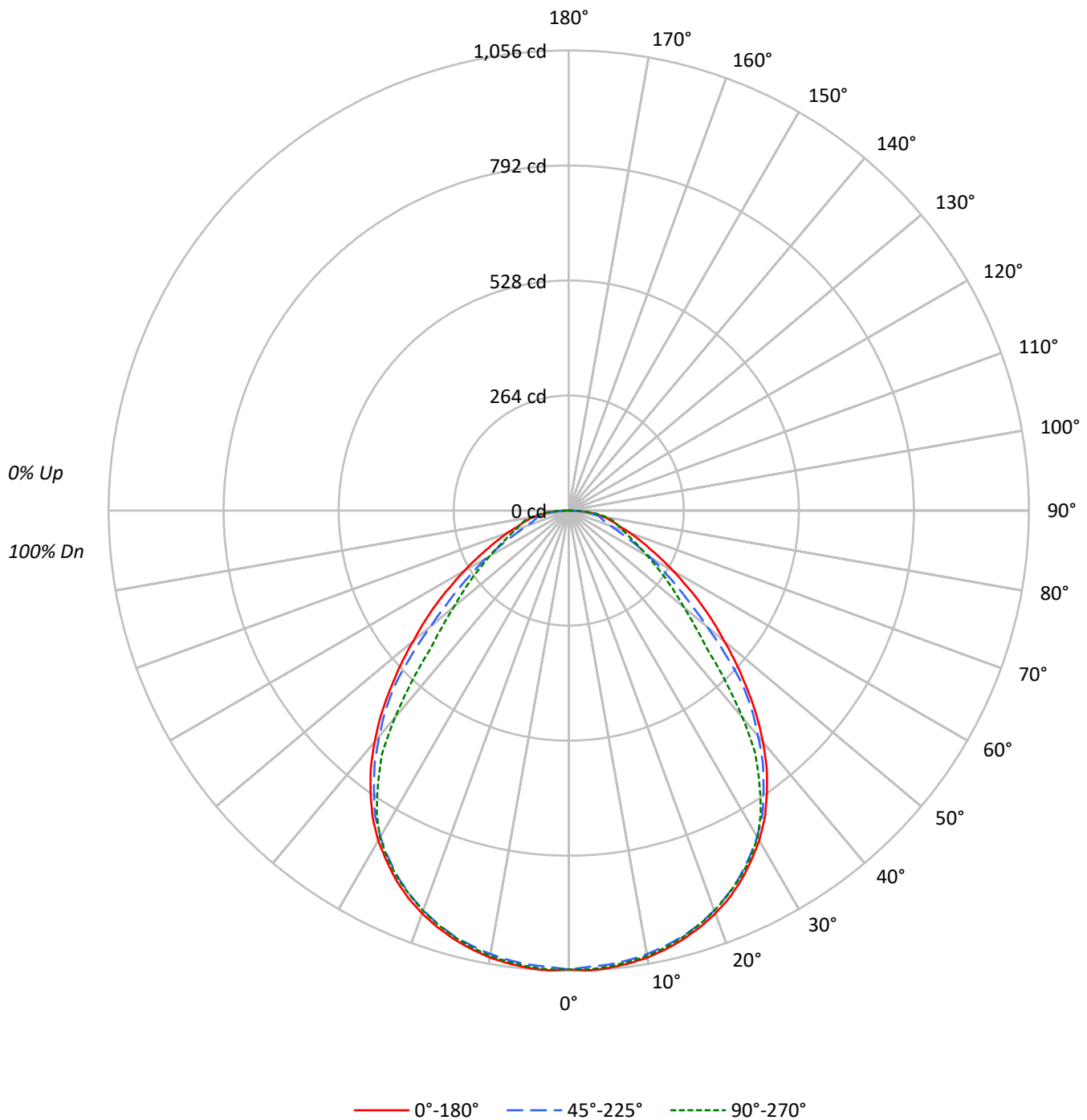
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291150

CATALOG NUMBER: 14GR-LD5-24-A125-UNV-L83050-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P291150

CATALOG NUMBER: 14GR-LD5-24-A125-UNV-L83050-W2A1-U-3000K

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	101	94	88	82	99	92	86	82	88	84	80		85	81	78		82
3	93	84	76	70	91	82	75	70	79	73	69		77	72	67		74
4	86	75	67	61	84	74	66	61	71	65	60		69	64	59		67
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		61
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		56
7	69	56	48	43	67	56	48	42	54	47	42		53	47	42		51
8	65	52	44	38	63	51	44	38	50	43	38		49	42	38		48
9	60	48	40	35	59	47	40	35	46	39	35		45	39	34		44
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2833	2833	2833
5°	2847	2825	2838
10°	2846	2824	2836
15°	2836	2818	2823
20°	2817	2796	2799
25°	2779	2754	2762
30°	2716	2686	2692
35°	2604	2560	2506
40°	2435	2375	2179
45°	2204	2141	1709
50°	1949	1732	1441
55°	1725	1424	1270
60°	1489	1178	1126
65°	1295	937	1036
70°	1171	804	1036
75°	1124	840	1157
80°	1252	1069	1351
85°	1321	1139	1621



TEST NUMBER: P291150

CATALOG NUMBER: 14GR-LD5-24-A125-UNV-L83050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	4.3
10°-20°	286.2	12.4
20°-30°	428.3	18.6
30°-40°	484.8	21.0
40°-50°	412.9	17.9
50°-60°	279.6	12.1
60°-70°	166.9	7.2
70°-80°	104.3	4.5
80°-90°	44.1	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°	814.3	35.3
0°-40°	1299.1	56.3
0°-60°	1991.7	86.3
0°-90°	2307.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2307.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1053	1053	1053	1053	1053	
5°	1054	1051	1046	1052	1051	100
15°	1018	1014	1012	1018	1013	287
25°	936	933	928	932	930	431
35°	793	788	779	771	763	494
45°	579	581	562	480	449	447
55°	368	347	304	271	271	329
65°	203	170	147	157	163	205
75°	108	97	81	106	111	117
85°	43	40	37	47	52	46
90°	0	0	0	0	0	



TEST NUMBER: P291150

CATALOG NUMBER: 14GR-LD5-24-A125-UNV-L83050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1052.8	1052.8	1052.8	1052.8	1052.8
2.5°	1056.5	1053.8	1047.9	1054.9	1053.8
5°	1053.8	1051.2	1045.8	1052.2	1050.6
7.5°	1048.5	1045.8	1041.0	1047.4	1044.7
10°	1041.5	1038.3	1033.5	1040.4	1037.8
12.5°	1030.8	1027.6	1023.3	1030.3	1026.5
15°	1018.0	1014.2	1011.5	1018.0	1013.2
17.5°	1002.4	999.2	995.5	1001.9	996.6
20°	983.7	981.0	976.2	980.0	977.3
22.5°	962.3	958.6	953.7	958.0	954.3
25°	936.1	933.4	927.5	931.8	930.2
27.5°	906.1	904.5	897.5	902.9	900.2
30°	874.0	869.7	864.4	866.0	866.5
32.5°	837.1	831.7	827.4	823.7	819.9
35°	792.6	787.8	779.3	771.2	762.7
37.5°	746.6	740.2	731.6	714.0	703.3
40°	693.1	689.9	676.0	651.3	620.3
42.5°	638.5	635.3	623.0	567.9	534.1
45°	579.1	580.7	562.5	479.5	449.0
47.5°	522.4	526.6	487.0	409.4	393.4
50°	465.6	470.4	413.7	353.8	344.1
52.5°	415.9	412.1	352.7	310.4	306.1
55°	367.7	347.4	303.5	270.8	270.8
57.5°	318.4	289.5	258.0	237.1	237.1
60°	276.7	240.8	218.9	205.0	209.3
62.5°	238.2	200.2	181.4	178.8	184.1
65°	203.4	169.7	147.2	157.4	162.7
67.5°	175.0	145.0	121.0	142.4	145.6
70°	148.8	126.3	102.2	131.1	131.7
72.5°	124.7	111.3	87.8	118.8	121.0
75°	108.1	96.9	80.8	106.0	111.3
77.5°	94.7	83.0	74.4	91.5	101.7
80°	80.8	68.0	69.0	77.1	87.2
82.5°	62.1	52.5	54.6	63.2	71.2
85°	42.8	39.6	36.9	46.6	52.5
87.5°	23.0	21.4	18.7	26.2	26.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)