

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: P291189

Luminaire Tested: **14GR-LD5-24-A125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291189
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-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2240.0 lumens
Efficiency: N/A
Efficacy: 122.9 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

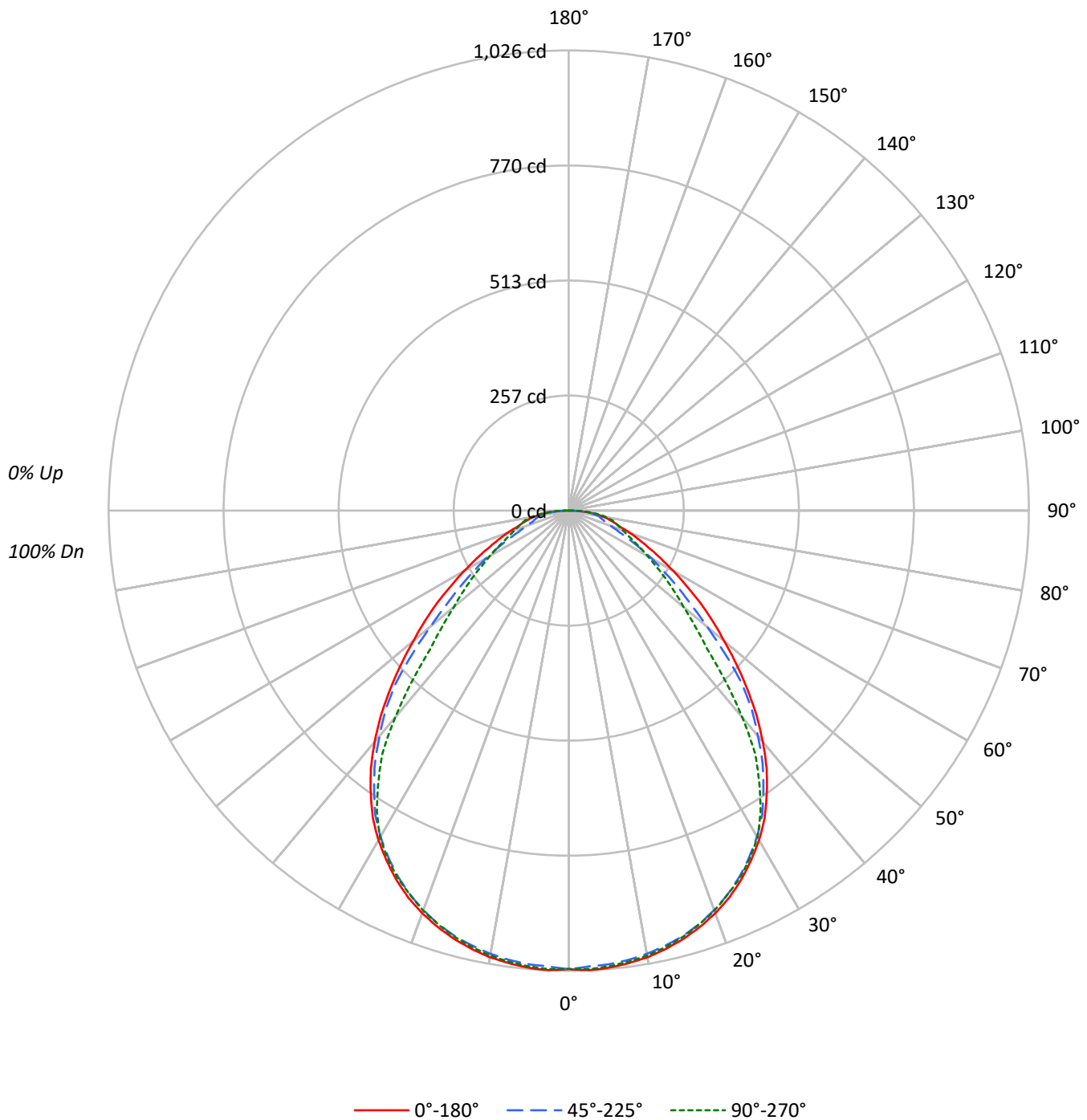
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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		52
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°	2751	2751	2751
5°	2764	2743	2756
10°	2763	2742	2753
15°	2754	2736	2740
20°	2735	2714	2717
25°	2699	2674	2682
30°	2637	2608	2614
35°	2528	2485	2433
40°	2364	2305	2116
45°	2140	2079	1659
50°	1893	1682	1399
55°	1675	1383	1234
60°	1446	1144	1094
65°	1258	910	1006
70°	1137	781	1006
75°	1092	816	1124
80°	1216	1038	1313
85°	1284	1108	1572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.0	4.3
10°-20°	277.9	12.4
20°-30°	415.8	18.6
30°-40°	470.7	21.0
40°-50°	401.0	17.9
50°-60°	271.5	12.1
60°-70°	162.1	7.2
70°-80°	101.3	4.5
80°-90°	42.8	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°	790.7	35.3
0°-40°	1261.4	56.3
0°-60°	1933.8	86.3
0°-90°	2240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2240.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1022	1022	1022	1022	1022	
5°	1023	1021	1015	1022	1020	97
15°	988	985	982	988	984	279
25°	909	906	901	905	903	418
35°	770	765	757	749	740	480
45°	562	564	546	466	436	434
55°	357	337	295	263	263	319
65°	198	165	143	153	158	199
75°	105	94	78	103	108	113
85°	42	38	36	45	51	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1022.2	1022.2	1022.2	1022.2	1022.2
2.5°	1025.8	1023.2	1017.5	1024.3	1023.2
5°	1023.2	1020.6	1015.4	1021.7	1020.1
7.5°	1018.0	1015.4	1010.7	1017.0	1014.4
10°	1011.3	1008.2	1003.5	1010.2	1007.6
12.5°	1000.9	997.8	993.6	1000.4	996.7
15°	988.4	984.8	982.2	988.4	983.7
17.5°	973.3	970.2	966.6	972.8	967.6
20°	955.1	952.5	947.9	951.5	948.9
22.5°	934.4	930.7	926.0	930.2	926.6
25°	908.9	906.3	900.6	904.7	903.2
27.5°	879.8	878.2	871.5	876.7	874.1
30°	848.6	844.5	839.3	840.8	841.3
32.5°	812.8	807.6	803.4	799.8	796.1
35°	769.6	764.9	756.6	748.8	740.5
37.5°	724.9	718.7	710.4	693.2	682.8
40°	673.0	669.8	656.3	632.4	602.3
42.5°	620.0	616.8	604.9	551.4	518.6
45°	562.3	563.8	546.2	465.6	436.0
47.5°	507.2	511.4	472.9	397.5	382.0
50°	452.1	456.8	401.7	343.5	334.1
52.5°	403.8	400.1	342.5	301.4	297.2
55°	357.0	337.3	294.7	263.0	263.0
57.5°	309.2	281.1	250.5	230.2	230.2
60°	268.7	233.8	212.5	199.0	203.2
62.5°	231.3	194.4	176.2	173.6	178.8
65°	197.5	164.7	142.9	152.8	158.0
67.5°	169.9	140.8	117.4	138.2	141.3
70°	144.5	122.6	99.3	127.3	127.8
72.5°	121.1	108.1	85.2	115.4	117.4
75°	105.0	94.1	78.5	102.9	108.1
77.5°	92.0	80.5	72.2	88.9	98.7
80°	78.5	66.0	67.0	74.8	84.7
82.5°	60.3	50.9	53.0	61.3	69.1
85°	41.6	38.5	35.9	45.2	50.9
87.5°	22.3	20.8	18.2	25.5	26.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)