

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: P291250

Luminaire Tested: **14GR-LD5-24-A125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291250
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-L93050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2241.0 lumens
Efficiency: N/A
Efficacy: 119.9 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

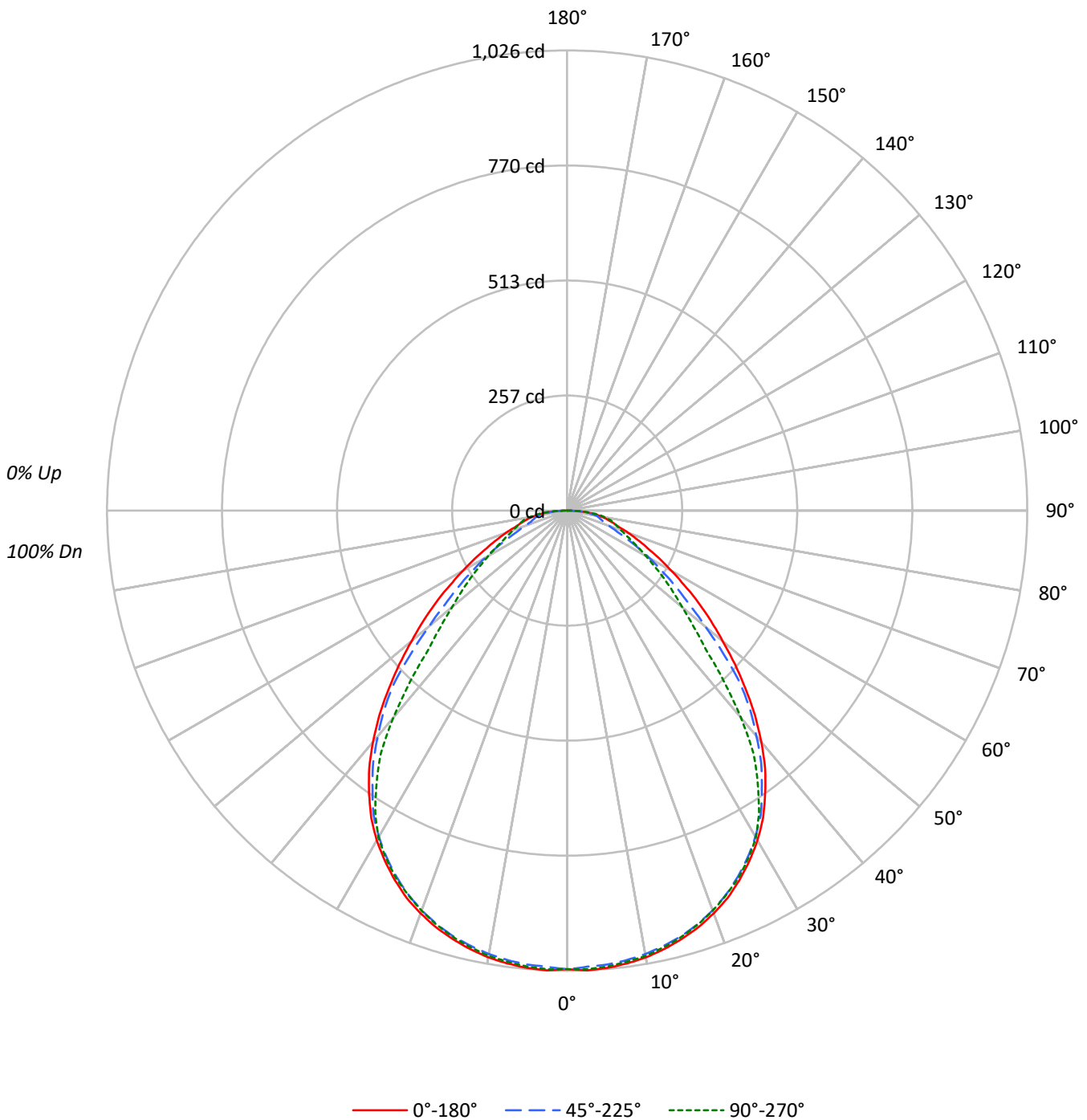
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2752	2752	2752
5°	2765	2744	2757
10°	2764	2743	2755
15°	2755	2737	2742
20°	2737	2716	2718
25°	2700	2675	2683
30°	2638	2609	2615
35°	2530	2487	2434
40°	2365	2307	2117
45°	2141	2079	1660
50°	1894	1683	1400
55°	1676	1383	1234
60°	1447	1144	1094
65°	1258	911	1006
70°	1137	781	1006
75°	1092	816	1124
80°	1216	1040	1313
85°	1284	1108	1572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.0	4.3
10°-20°	278.0	12.4
20°-30°	416.0	18.6
30°-40°	470.9	21.0
40°-50°	401.1	17.9
50°-60°	271.6	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°	791.0	35.3
0°-40°	1262.0	56.3
0°-60°	1934.7	86.3
0°-90°	2241.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2241.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1023	1023	1023	1023	1023	
5°	1024	1021	1016	1022	1021	97
15°	989	985	983	989	984	279
25°	909	907	901	905	904	418
35°	770	765	757	749	741	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	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1022.6	1022.6	1022.6	1022.6	1022.6
2.5°	1026.3	1023.7	1018.0	1024.7	1023.7
5°	1023.7	1021.1	1015.9	1022.1	1020.6
7.5°	1018.5	1015.9	1011.2	1017.4	1014.8
10°	1011.7	1008.6	1003.9	1010.7	1008.1
12.5°	1001.3	998.2	994.0	1000.8	997.2
15°	988.8	985.2	982.6	988.8	984.2
17.5°	973.8	970.6	967.0	973.2	968.0
20°	955.6	953.0	948.3	951.9	949.3
22.5°	934.8	931.1	926.5	930.6	927.0
25°	909.3	906.7	901.0	905.1	903.6
27.5°	880.2	878.6	871.9	877.1	874.5
30°	849.0	844.8	839.6	841.2	841.7
32.5°	813.1	807.9	803.8	800.1	796.5
35°	770.0	765.3	757.0	749.2	740.9
37.5°	725.3	719.0	710.7	693.5	683.1
40°	673.3	670.1	656.6	632.7	602.6
42.5°	620.2	617.1	605.2	551.6	518.9
45°	562.5	564.1	546.4	465.8	436.2
47.5°	507.4	511.6	473.1	397.7	382.1
50°	452.3	457.0	401.9	343.7	334.3
52.5°	404.0	400.3	342.6	301.5	297.4
55°	357.2	337.4	294.8	263.1	263.1
57.5°	309.3	281.3	250.6	230.3	230.3
60°	268.8	234.0	212.6	199.1	203.3
62.5°	231.4	194.4	176.2	173.6	178.8
65°	197.6	164.8	143.0	152.8	158.0
67.5°	170.0	140.9	117.5	138.3	141.4
70°	144.5	122.7	99.3	127.4	127.9
72.5°	121.1	108.1	85.3	115.4	117.5
75°	105.0	94.1	78.5	102.9	108.1
77.5°	92.0	80.6	72.3	88.9	98.8
80°	78.5	66.0	67.1	74.9	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°	22.4	20.8	18.2	25.5	26.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)