

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: P291243

Luminaire Tested: **14GR-LD5-20-A125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291243
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-LD5-20-A125-UNV-L93050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1622.0 lumens
Efficiency: N/A
Efficacy: 102.0 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

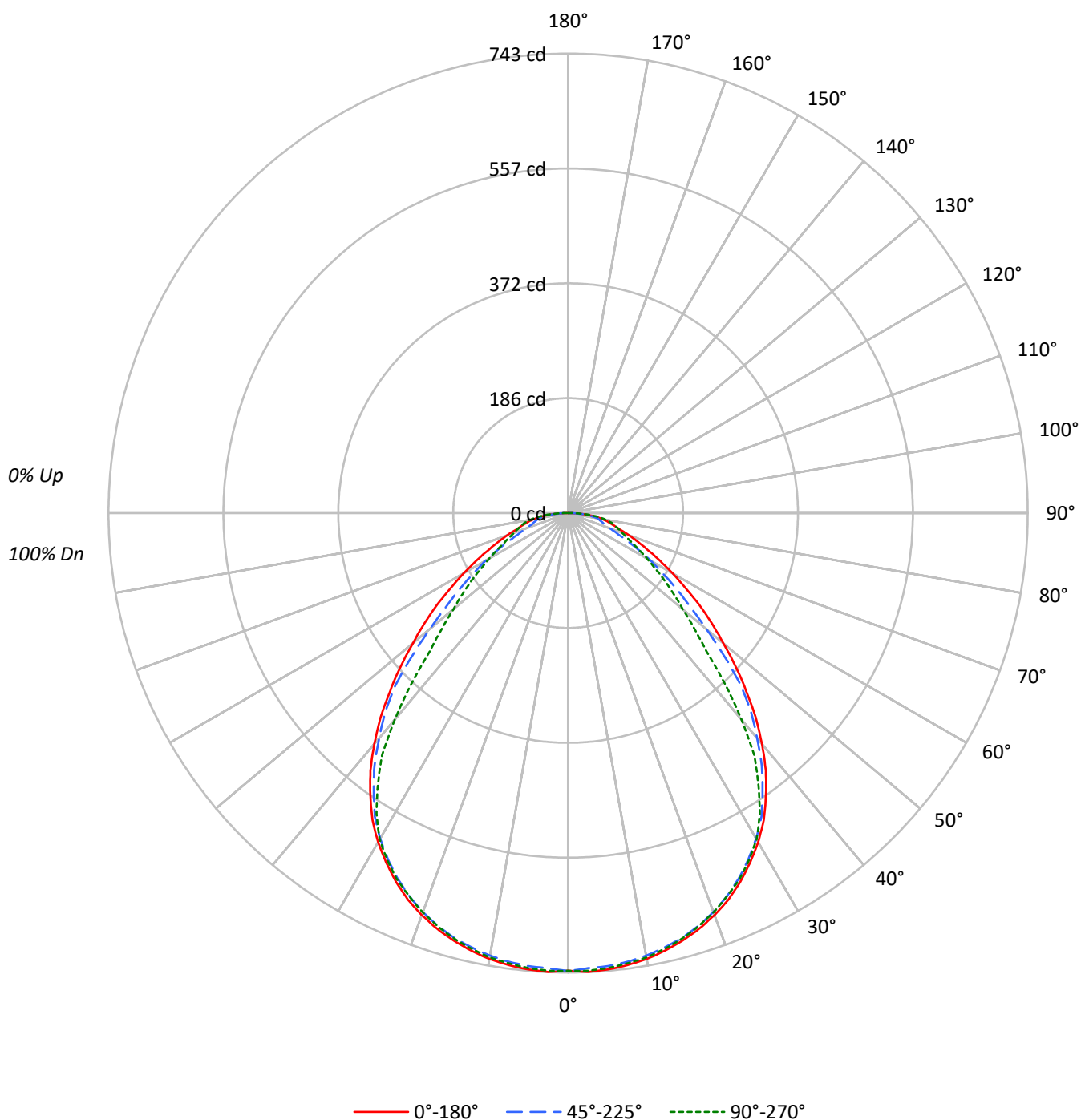
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1992	1992	1992
5°	2001	1986	1995
10°	2001	1985	1994
15°	1994	1981	1984
20°	1981	1966	1968
25°	1954	1936	1942
30°	1909	1888	1893
35°	1831	1800	1761
40°	1712	1670	1532
45°	1549	1505	1201
50°	1371	1218	1013
55°	1213	1001	893
60°	1047	828	792
65°	911	659	728
70°	823	566	729
75°	790	591	814
80°	880	752	950
85°	929	803	1139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	4.3
10°-20°	201.2	12.4
20°-30°	301.1	18.6
30°-40°	340.9	21.0
40°-50°	290.3	17.9
50°-60°	196.6	12.1
60°-70°	117.4	7.2
70°-80°	73.3	4.5
80°-90°	31.0	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°	572.5	35.3
0°-40°	913.4	56.3
0°-60°	1400.3	86.3
0°-90°	1622.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1622.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	740	740	740	740	740	
5°	741	739	735	740	739	70
15°	716	713	711	716	712	202
25°	658	656	652	655	654	303
35°	557	554	548	542	536	347
45°	407	408	396	337	316	314
55°	258	244	213	190	190	231
65°	143	119	104	111	114	144
75°	76	68	57	74	78	82
85°	30	28	26	33	37	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	740.2	740.2	740.2	740.2	740.2
2.5°	742.8	740.9	736.8	741.7	740.9
5°	740.9	739.0	735.3	739.8	738.7
7.5°	737.2	735.3	731.9	736.4	734.5
10°	732.3	730.0	726.6	731.5	729.6
12.5°	724.7	722.5	719.5	724.4	721.7
15°	715.7	713.1	711.2	715.7	712.3
17.5°	704.8	702.5	699.9	704.4	700.7
20°	691.6	689.7	686.4	689.0	687.1
22.5°	676.6	673.9	670.6	673.6	670.9
25°	658.1	656.3	652.1	655.1	654.0
27.5°	637.1	635.9	631.0	634.8	632.9
30°	614.5	611.5	607.7	608.8	609.2
32.5°	588.5	584.8	581.7	579.1	576.5
35°	557.3	553.9	547.9	542.2	536.2
37.5°	524.9	520.4	514.4	502.0	494.4
40°	487.3	485.0	475.3	457.9	436.1
42.5°	448.9	446.7	438.0	399.2	375.5
45°	407.1	408.3	395.5	337.2	315.7
47.5°	367.3	370.3	342.4	287.9	276.6
50°	327.4	330.8	290.9	248.7	242.0
52.5°	292.4	289.7	248.0	218.3	215.2
55°	258.5	244.2	213.4	190.4	190.4
57.5°	223.9	203.6	181.4	166.7	166.7
60°	194.5	169.3	153.9	144.1	147.1
62.5°	167.5	140.7	127.6	125.7	129.4
65°	143.0	119.3	103.5	110.6	114.4
67.5°	123.0	102.0	85.0	100.1	102.4
70°	104.6	88.8	71.9	92.2	92.6
72.5°	87.7	78.3	61.7	83.5	85.0
75°	76.0	68.1	56.8	74.5	78.3
77.5°	66.6	58.3	52.3	64.3	71.5
80°	56.8	47.8	48.5	54.2	61.3
82.5°	43.7	36.9	38.4	44.4	50.0
85°	30.1	27.8	26.0	32.7	36.9
87.5°	16.2	15.1	13.2	18.4	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)