

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: P291151

Luminaire Tested: **14GR-LD5-24-A125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291151
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-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2441.0 lumens
Efficiency: N/A
Efficacy: 133.9 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

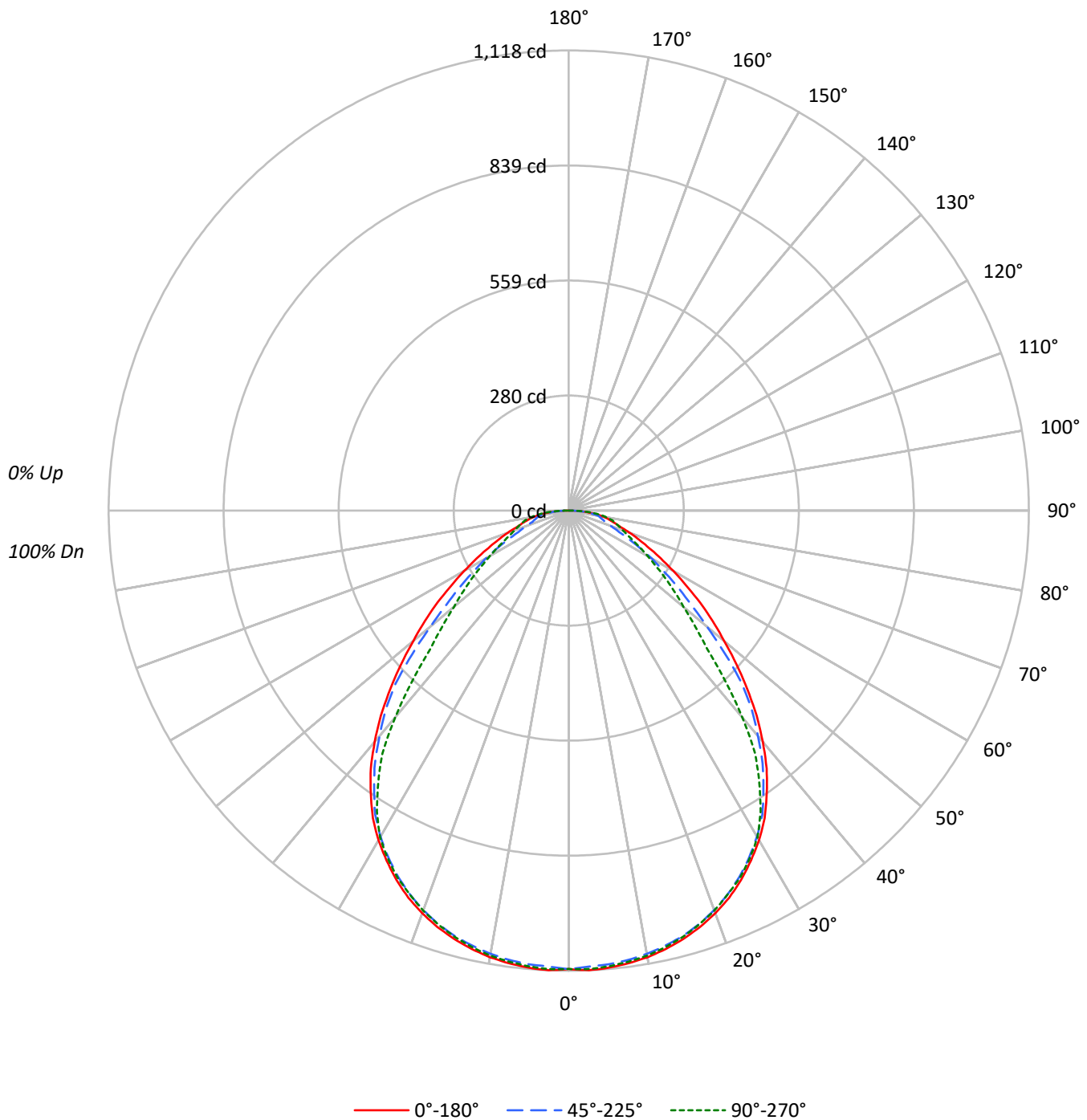
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2997	2997	2997
5°	3012	2989	3003
10°	3011	2988	3000
15°	3001	2982	2986
20°	2981	2958	2961
25°	2941	2914	2922
30°	2874	2842	2849
35°	2755	2709	2651
40°	2576	2512	2305
45°	2332	2265	1808
50°	2063	1832	1524
55°	1825	1506	1344
60°	1576	1246	1192
65°	1370	991	1096
70°	1238	851	1096
75°	1189	889	1225
80°	1325	1133	1430
85°	1399	1207	1714



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.7	4.3
10°-20°	302.8	12.4
20°-30°	453.2	18.6
30°-40°	513.0	21.0
40°-50°	436.9	17.9
50°-60°	295.8	12.1
60°-70°	176.6	7.2
70°-80°	110.3	4.5
80°-90°	46.6	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°	861.6	35.3
0°-40°	1374.6	56.3
0°-60°	2107.4	86.3
0°-90°	2441.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2441.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1114	1114	1114	1114	1114	
5°	1115	1112	1106	1113	1112	106
15°	1077	1073	1070	1077	1072	304
25°	990	988	981	986	984	456
35°	839	834	824	816	807	523
45°	613	614	595	507	475	473
55°	389	368	321	286	286	348
65°	215	180	156	166	172	217
75°	114	102	86	112	118	123
85°	45	42	39	49	56	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1113.9	1113.9	1113.9	1113.9	1113.9
2.5°	1117.9	1115.0	1108.8	1116.2	1115.0
5°	1115.0	1112.2	1106.5	1113.3	1111.6
7.5°	1109.4	1106.5	1101.4	1108.2	1105.4
10°	1102.0	1098.6	1093.5	1100.9	1098.0
12.5°	1090.7	1087.3	1082.8	1090.1	1086.2
15°	1077.1	1073.1	1070.3	1077.1	1072.0
17.5°	1060.7	1057.3	1053.3	1060.1	1054.4
20°	1040.9	1038.0	1032.9	1036.9	1034.1
22.5°	1018.2	1014.2	1009.1	1013.7	1009.7
25°	990.5	987.6	981.4	985.9	984.2
27.5°	958.7	957.0	949.7	955.3	952.5
30°	924.8	920.2	914.6	916.3	916.8
32.5°	885.7	880.0	875.5	871.5	867.6
35°	838.7	833.6	824.5	816.0	807.0
37.5°	790.0	783.2	774.1	755.4	744.1
40°	733.4	730.0	715.2	689.2	656.3
42.5°	675.6	672.2	659.2	600.8	565.2
45°	612.7	614.4	595.2	507.4	475.1
47.5°	552.7	557.2	515.3	433.2	416.2
50°	492.7	497.8	437.7	374.3	364.1
52.5°	440.0	436.0	373.2	328.5	323.9
55°	389.0	367.5	321.1	286.5	286.5
57.5°	336.9	306.4	273.0	250.9	250.9
60°	292.8	254.8	231.6	216.9	221.4
62.5°	252.0	211.8	192.0	189.1	194.8
65°	215.2	179.5	155.7	166.5	172.2
67.5°	185.2	153.5	128.0	150.6	154.0
70°	157.4	133.6	108.2	138.7	139.3
72.5°	131.9	117.8	92.9	125.7	128.0
75°	114.4	102.5	85.5	112.1	117.8
77.5°	100.2	87.8	78.7	96.8	107.6
80°	85.5	71.9	73.1	81.5	92.3
82.5°	65.7	55.5	57.8	66.8	75.3
85°	45.3	41.9	39.1	49.3	55.5
87.5°	24.4	22.7	19.8	27.7	28.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)