

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: P291303

Luminaire Tested: **14GR-LD5-28-A125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291303
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-LD5-28-A125-UNV-L92765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2748.0 lumens
Efficiency: N/A
Efficacy: 120.1 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

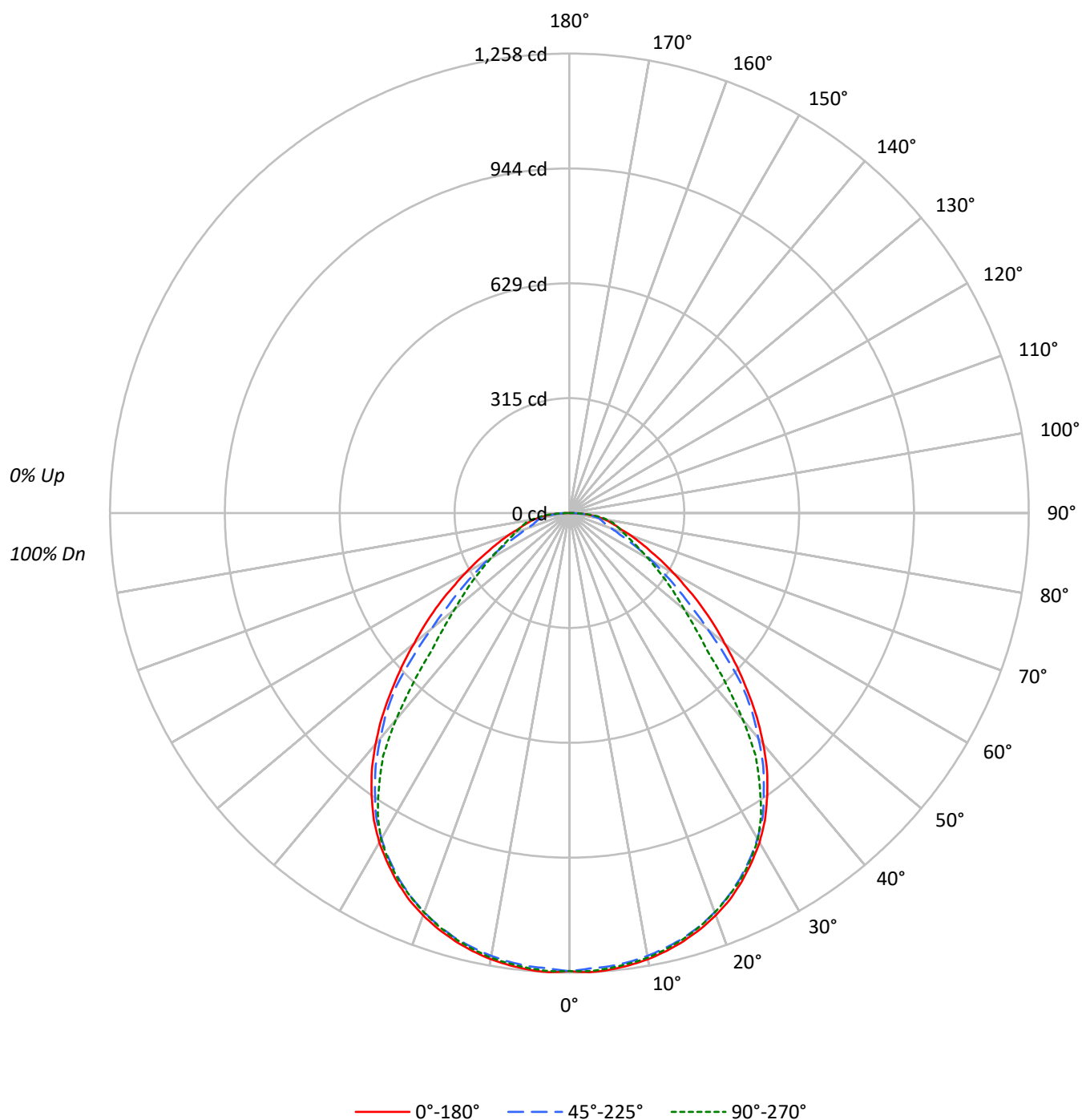
Input Watts (W): 22.878
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3374	3374	3374
5°	3391	3365	3380
10°	3390	3364	3378
15°	3378	3357	3362
20°	3356	3330	3334
25°	3311	3280	3290
30°	3235	3199	3207
35°	3102	3049	2984
40°	2900	2829	2596
45°	2625	2550	2036
50°	2322	2063	1716
55°	2055	1696	1514
60°	1774	1403	1342
65°	1543	1116	1234
70°	1394	958	1234
75°	1339	1001	1379
80°	1492	1274	1610
85°	1575	1359	1930



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.9	4.3
10°-20°	340.9	12.4
20°-30°	510.2	18.6
30°-40°	577.5	21.0
40°-50°	491.9	17.9
50°-60°	333.1	12.1
60°-70°	198.8	7.2
70°-80°	124.2	4.5
80°-90°	52.5	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°	970.0	35.3
0°-40°	1547.5	56.3
0°-60°	2372.4	86.3
0°-90°	2748.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2748.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1254	1254	1254	1254	1254	
5°	1255	1252	1246	1253	1251	119
15°	1213	1208	1205	1213	1207	342
25°	1115	1112	1105	1110	1108	513
35°	944	938	928	919	908	588
45°	690	692	670	571	535	532
55°	438	414	362	323	323	392
65°	242	202	175	187	194	244
75°	129	115	96	126	133	139
85°	51	47	44	56	62	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1254.0	1254.0	1254.0	1254.0	1254.0
2.5°	1258.5	1255.3	1248.3	1256.5	1255.3
5°	1255.3	1252.1	1245.7	1253.4	1251.4
7.5°	1248.9	1245.7	1240.0	1247.6	1244.4
10°	1240.6	1236.8	1231.0	1239.3	1236.1
12.5°	1227.9	1224.0	1218.9	1227.2	1222.8
15°	1212.6	1208.1	1204.9	1212.6	1206.8
17.5°	1194.1	1190.2	1185.8	1193.4	1187.1
20°	1171.8	1168.6	1162.8	1167.3	1164.1
22.5°	1146.3	1141.8	1136.1	1141.2	1136.7
25°	1115.0	1111.8	1104.8	1109.9	1108.0
27.5°	1079.3	1077.4	1069.1	1075.5	1072.3
30°	1041.1	1036.0	1029.6	1031.5	1032.1
32.5°	997.1	990.7	985.6	981.1	976.7
35°	944.2	938.4	928.2	918.7	908.5
37.5°	889.3	881.7	871.5	850.4	837.7
40°	825.6	821.8	805.2	775.9	738.9
42.5°	760.6	756.7	742.1	676.4	636.2
45°	689.8	691.7	670.0	571.2	534.9
47.5°	622.2	627.3	580.1	487.7	468.6
50°	554.6	560.4	492.8	421.4	409.9
52.5°	495.4	490.9	420.1	369.8	364.7
55°	438.0	413.7	361.5	322.6	322.6
57.5°	379.3	344.9	307.3	282.4	282.4
60°	329.6	286.9	260.7	244.2	249.3
62.5°	283.7	238.4	216.1	212.9	219.3
65°	242.3	202.1	175.3	187.4	193.8
67.5°	208.5	172.8	144.1	169.6	173.4
70°	177.2	150.5	121.8	156.2	156.8
72.5°	148.5	132.6	104.6	141.5	144.1
75°	128.8	115.4	96.3	126.2	132.6
77.5°	112.8	98.8	88.6	109.0	121.1
80°	96.3	81.0	82.2	91.8	103.9
82.5°	74.0	62.5	65.0	75.2	84.8
85°	51.0	47.2	44.0	55.5	62.5
87.5°	27.4	25.5	22.3	31.2	31.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)