

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: P291301

Luminaire Tested: **14GR-LD5-28-A125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291301
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-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2694.0 lumens
Efficiency: N/A
Efficacy: 118.2 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

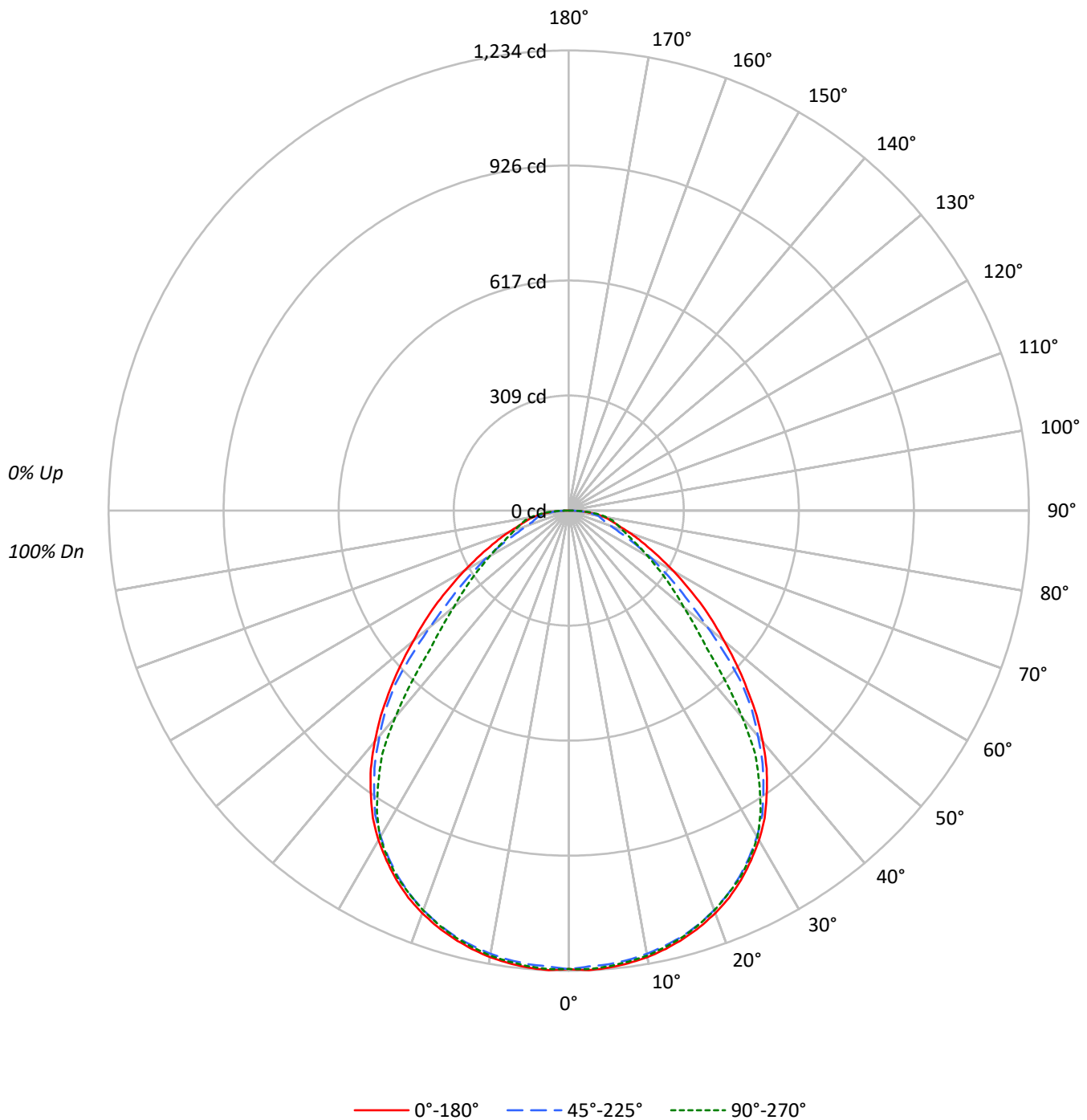
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3308	3308	3308
5°	3324	3299	3314
10°	3323	3298	3312
15°	3312	3291	3296
20°	3290	3265	3268
25°	3246	3216	3225
30°	3171	3136	3144
35°	3041	2989	2926
40°	2843	2773	2545
45°	2573	2500	1996
50°	2276	2022	1683
55°	2015	1663	1483
60°	1739	1376	1315
65°	1512	1095	1210
70°	1367	939	1209
75°	1312	981	1352
80°	1463	1249	1579
85°	1544	1331	1890



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.6	4.3
10°-20°	334.2	12.4
20°-30°	500.1	18.6
30°-40°	566.1	21.0
40°-50°	482.2	17.9
50°-60°	326.5	12.1
60°-70°	194.9	7.2
70°-80°	121.8	4.5
80°-90°	51.5	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°	950.9	35.3
0°-40°	1517.1	56.3
0°-60°	2325.8	86.3
0°-90°	2694.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2694.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1229	1229	1229	1229	1229	
5°	1231	1228	1221	1229	1227	117
15°	1189	1184	1181	1189	1183	335
25°	1093	1090	1083	1088	1086	503
35°	926	920	910	901	891	577
45°	676	678	657	560	524	522
55°	429	406	354	316	316	384
65°	238	198	172	184	190	239
75°	126	113	94	124	130	136
85°	50	46	43	54	61	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1229.4	1229.4	1229.4	1229.4	1229.4
2.5°	1233.7	1230.6	1223.7	1231.9	1230.6
5°	1230.6	1227.5	1221.2	1228.7	1226.9
7.5°	1224.4	1221.2	1215.6	1223.1	1220.0
10°	1216.2	1212.5	1206.9	1215.0	1211.9
12.5°	1203.7	1200.0	1195.0	1203.1	1198.7
15°	1188.7	1184.4	1181.2	1188.7	1183.1
17.5°	1170.6	1166.9	1162.5	1170.0	1163.7
20°	1148.7	1145.6	1140.0	1144.4	1141.2
22.5°	1123.7	1119.4	1113.7	1118.7	1114.4
25°	1093.1	1090.0	1083.1	1088.1	1086.2
27.5°	1058.1	1056.2	1048.1	1054.4	1051.2
30°	1020.6	1015.6	1009.4	1011.2	1011.9
32.5°	977.5	971.2	966.2	961.9	957.5
35°	925.6	920.0	910.0	900.6	890.6
37.5°	871.9	864.4	854.4	833.7	821.2
40°	809.4	805.6	789.4	760.6	724.4
42.5°	745.6	741.9	727.5	663.1	623.7
45°	676.2	678.1	656.9	560.0	524.4
47.5°	610.0	615.0	568.7	478.1	459.4
50°	543.7	549.4	483.1	413.1	401.9
52.5°	485.6	481.2	411.9	362.5	357.5
55°	429.4	405.6	354.4	316.2	316.2
57.5°	371.9	338.1	301.2	276.9	276.9
60°	323.1	281.2	255.6	239.4	244.4
62.5°	278.1	233.7	211.9	208.7	215.0
65°	237.5	198.1	171.9	183.7	190.0
67.5°	204.4	169.4	141.2	166.2	170.0
70°	173.7	147.5	119.4	153.1	153.7
72.5°	145.6	130.0	102.5	138.7	141.2
75°	126.2	113.1	94.4	123.7	130.0
77.5°	110.6	96.9	86.9	106.9	118.7
80°	94.4	79.4	80.6	90.0	101.9
82.5°	72.5	61.2	63.7	73.7	83.1
85°	50.0	46.2	43.1	54.4	61.2
87.5°	26.9	25.0	21.9	30.6	31.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)