

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: P291217

Luminaire Tested: **14GR-LD5-36-A125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291217
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-LD5-36-A125-UNV-L82765-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3491.0 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

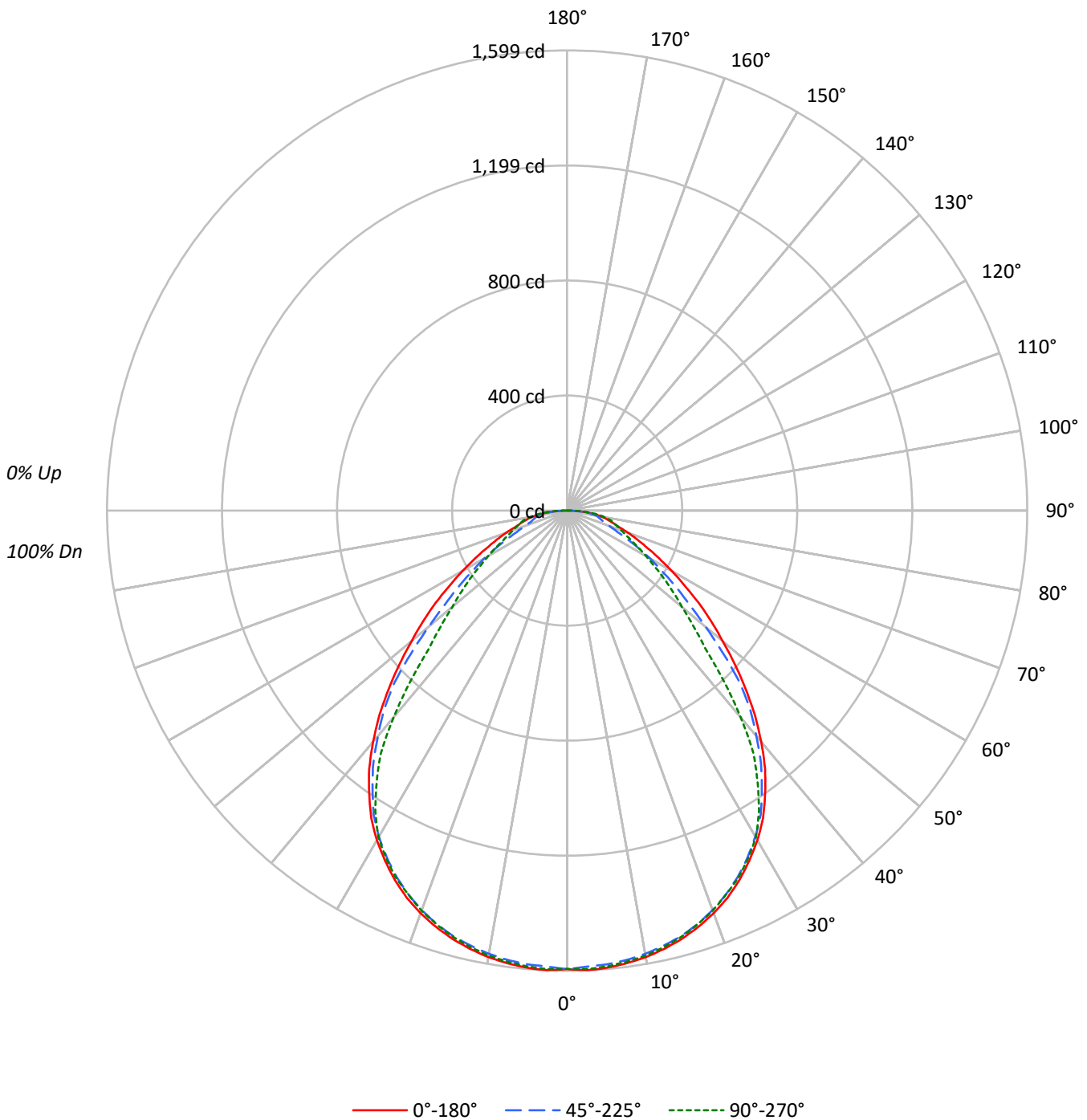
Input Watts (W): 29.109
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4287	4287	4287
5°	4308	4275	4294
10°	4306	4273	4291
15°	4291	4264	4271
20°	4263	4230	4235
25°	4206	4167	4179
30°	4109	4064	4074
35°	3940	3874	3791
40°	3684	3593	3297
45°	3335	3239	2586
50°	2950	2621	2180
55°	2610	2154	1923
60°	2253	1783	1704
65°	1960	1418	1568
70°	1771	1217	1567
75°	1701	1272	1752
80°	1895	1619	2046
85°	2001	1726	2452



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	4.3
10°-20°	433.0	12.4
20°-30°	648.1	18.6
30°-40°	733.6	21.0
40°-50°	624.9	17.9
50°-60°	423.1	12.1
60°-70°	252.6	7.2
70°-80°	157.8	4.5
80°-90°	66.7	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°	1232.2	35.3
0°-40°	1965.9	56.3
0°-60°	3013.9	86.3
0°-90°	3491.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3491.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1593	1593	1593	1593	1593	
5°	1595	1591	1582	1592	1590	152
15°	1540	1535	1531	1540	1533	435
25°	1416	1412	1404	1410	1408	651
35°	1199	1192	1179	1167	1154	748
45°	876	879	851	726	680	676
55°	556	526	459	410	410	498
65°	308	257	223	238	246	310
75°	164	147	122	160	168	177
85°	65	60	56	70	79	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1593.1	1593.1	1593.1	1593.1	1593.1
2.5°	1598.7	1594.7	1585.8	1596.3	1594.7
5°	1594.7	1590.6	1582.5	1592.2	1589.8
7.5°	1586.6	1582.5	1575.2	1585.0	1580.9
10°	1576.0	1571.2	1563.9	1574.4	1570.4
12.5°	1559.8	1555.0	1548.5	1559.0	1553.4
15°	1540.4	1534.7	1530.7	1540.4	1533.1
17.5°	1516.9	1512.1	1506.4	1516.1	1508.0
20°	1488.6	1484.5	1477.2	1482.9	1478.9
22.5°	1456.2	1450.5	1443.2	1449.7	1444.0
25°	1416.5	1412.4	1403.5	1410.0	1407.6
27.5°	1371.1	1368.7	1358.2	1366.3	1362.2
30°	1322.5	1316.1	1308.0	1310.4	1311.2
32.5°	1266.7	1258.6	1252.1	1246.4	1240.8
35°	1199.4	1192.2	1179.2	1167.1	1154.1
37.5°	1129.8	1120.1	1107.1	1080.4	1064.2
40°	1048.8	1043.9	1022.9	985.6	938.7
42.5°	966.2	961.3	942.7	859.3	808.3
45°	876.3	878.7	851.2	725.7	679.5
47.5°	790.5	796.9	737.0	619.6	595.3
50°	704.6	711.9	626.0	535.3	520.8
52.5°	629.3	623.6	533.7	469.7	463.3
55°	556.4	525.6	459.2	409.8	409.8
57.5°	481.9	438.2	390.4	358.8	358.8
60°	418.7	364.5	331.2	310.2	316.7
62.5°	360.4	302.9	274.6	270.5	278.6
65°	307.8	256.7	222.7	238.1	246.2
67.5°	264.8	219.5	183.0	215.4	220.3
70°	225.1	191.1	154.7	198.4	199.2
72.5°	188.7	168.5	132.8	179.8	183.0
75°	163.6	146.6	122.3	160.4	168.5
77.5°	143.4	125.5	112.6	138.5	153.9
80°	122.3	102.9	104.5	116.6	132.0
82.5°	93.9	79.4	82.6	95.6	107.7
85°	64.8	59.9	55.9	70.5	79.4
87.5°	34.8	32.4	28.3	39.7	40.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)