

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: P291218

Luminaire Tested: **14GR-LD5-36-A125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P291218  
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-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: 3612.0 lumens  
Efficiency: N/A  
Efficacy: 122.9 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

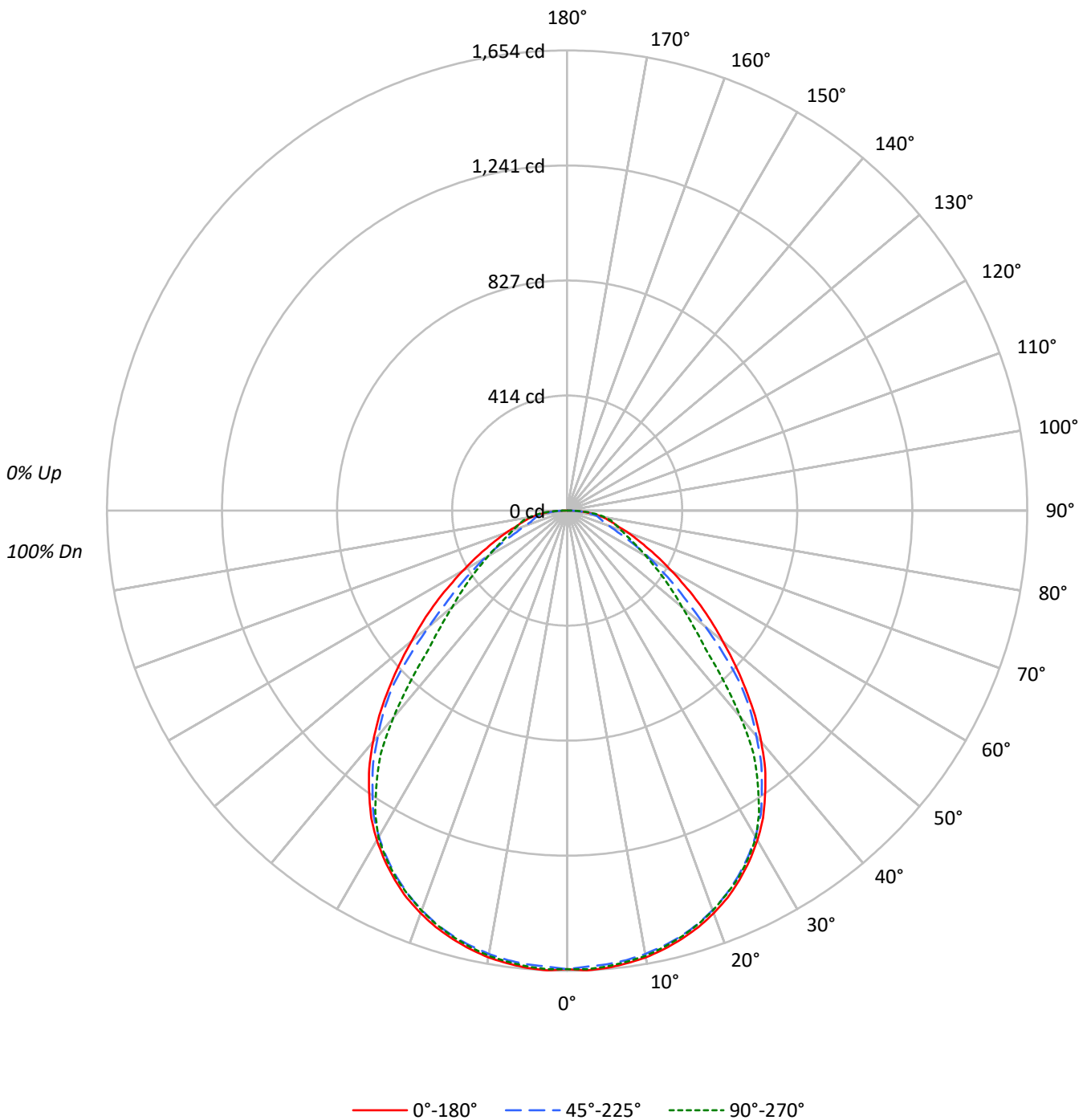
Input Watts (W): 29.388  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44					44			
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36					36			
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33					33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30					30			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4436	4436	4436
5°	4457	4423	4443
10°	4456	4421	4440
15°	4440	4412	4419
20°	4411	4377	4382
25°	4352	4312	4324
30°	4252	4205	4216
35°	4077	4008	3923
40°	3812	3718	3412
45°	3451	3352	2675
50°	3052	2712	2256
55°	2701	2229	1989
60°	2331	1844	1763
65°	2027	1467	1622
70°	1833	1260	1622
75°	1760	1315	1812
80°	1960	1675	2117
85°	2069	1785	2535



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.3	4.3
10°-20°	448.1	12.4
20°-30°	670.6	18.6
30°-40°	759.1	21.0
40°-50°	646.6	17.9
50°-60°	437.8	12.1
60°-70°	261.4	7.2
70°-80°	163.3	4.5
80°-90°	69.0	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°	1275.0	35.3
0°-40°	2034.0	56.3
0°-60°	3118.3	86.3
0°-90°	3612.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3612.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1648	1648	1648	1648	1648	
5°	1650	1646	1637	1647	1645	157
15°	1594	1588	1584	1594	1586	450
25°	1466	1461	1452	1459	1456	674
35°	1241	1234	1220	1208	1194	774
45°	907	909	881	751	703	699
55°	576	544	475	424	424	515
65°	318	266	230	246	255	321
75°	169	152	126	166	174	183
85°	67	62	58	73	82	72
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1648.3	1648.3	1648.3	1648.3	1648.3
2.5°	1654.1	1649.9	1640.7	1651.6	1649.9
5°	1649.9	1645.8	1637.4	1647.4	1644.9
7.5°	1641.6	1637.4	1629.8	1639.9	1635.7
10°	1630.7	1625.6	1618.1	1629.0	1624.8
12.5°	1613.9	1608.9	1602.2	1613.1	1607.2
15°	1593.8	1587.9	1583.7	1593.8	1586.3
17.5°	1569.5	1564.5	1558.6	1568.7	1560.3
20°	1540.2	1536.0	1528.4	1534.3	1530.1
22.5°	1506.7	1500.8	1493.2	1500.0	1494.1
25°	1465.6	1461.4	1452.2	1458.9	1456.4
27.5°	1418.7	1416.2	1405.3	1413.6	1409.5
30°	1368.4	1361.7	1353.3	1355.8	1356.7
32.5°	1310.6	1302.2	1295.5	1289.6	1283.8
35°	1241.0	1233.5	1220.1	1207.5	1194.1
37.5°	1169.0	1158.9	1145.5	1117.8	1101.1
40°	1085.2	1080.1	1058.3	1019.8	971.2
42.5°	999.7	994.7	975.4	889.1	836.3
45°	906.7	909.2	880.7	750.8	703.0
47.5°	817.8	824.6	762.5	641.0	615.9
50°	729.0	736.6	647.7	553.9	538.8
52.5°	651.1	645.2	552.2	486.0	479.3
55°	575.7	543.8	475.1	424.0	424.0
57.5°	498.6	453.3	403.9	371.2	371.2
60°	433.2	377.1	342.7	320.9	327.6
62.5°	372.9	313.4	284.1	279.9	288.3
65°	318.4	265.6	230.4	246.4	254.7
67.5°	274.0	227.1	189.4	222.9	227.9
70°	233.0	197.8	160.1	205.3	206.1
72.5°	195.2	174.3	137.4	186.0	189.4
75°	169.3	151.7	126.5	165.9	174.3
77.5°	148.3	129.9	116.5	143.3	159.2
80°	126.5	106.4	108.1	120.7	136.6
82.5°	97.2	82.1	85.5	98.9	111.4
85°	67.0	62.0	57.8	72.9	82.1
87.5°	36.0	33.5	29.3	41.1	41.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)