

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: P291122

Luminaire Tested: **14GR-LD5-36-A-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P291122  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-36-A-UNV-L92765-W2A1-U-4500K  
Description: GRLED 1x4 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3347.0 lumens  
Efficiency: N/A  
Efficacy: 112.1 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

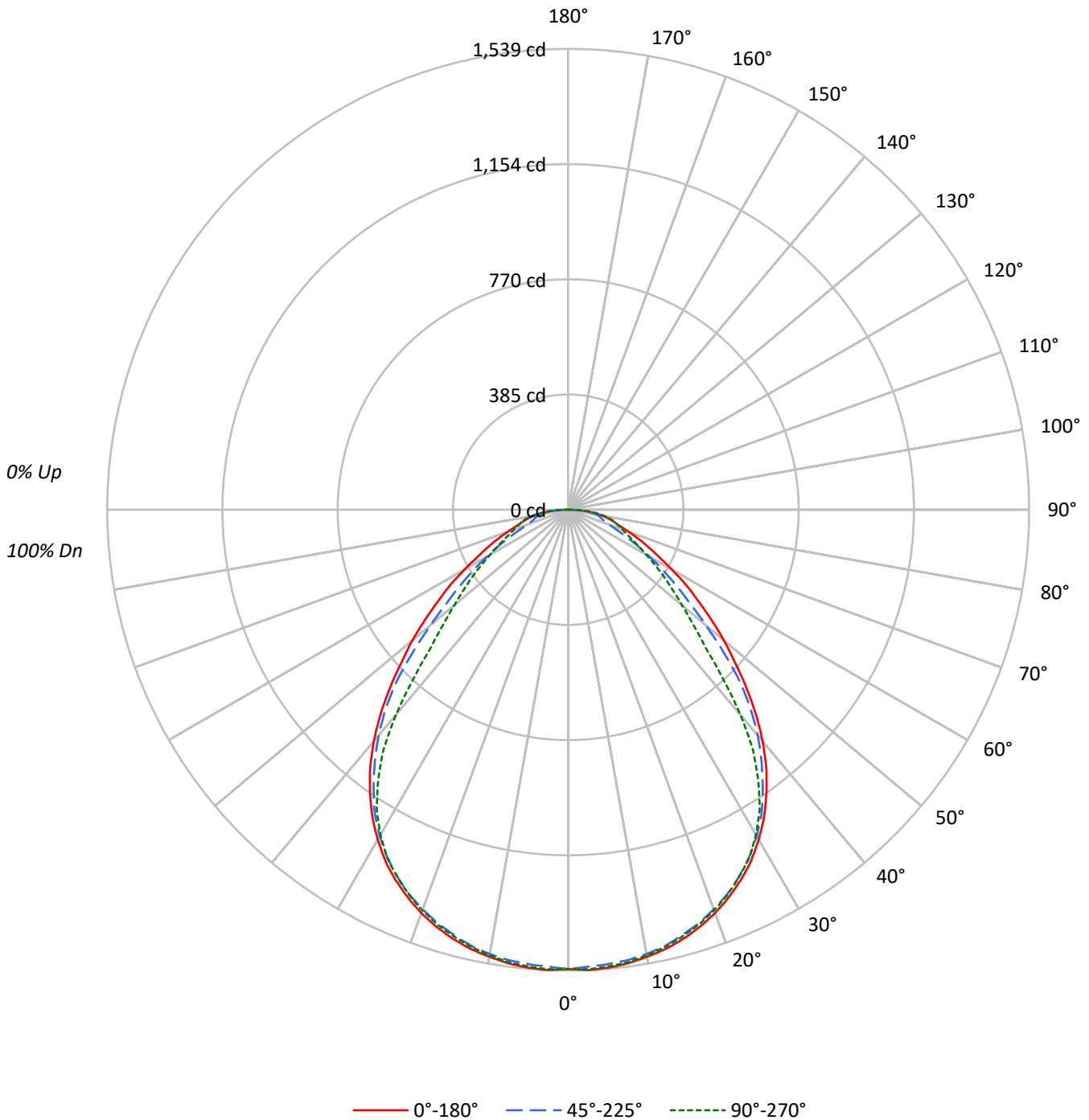
Input Watts (W): 29.853  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P291122

CATALOG NUMBER: 14GR-LD5-36-A-UNV-L92765-W2A1-U-4500K

### Luminous Intensity Polar Plot





TEST NUMBER: P291122

CATALOG NUMBER: 14GR-LD5-36-A-UNV-L92765-W2A1-U-4500K

**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	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	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	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30

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

	0°	45°	90°
0°	4127	4127	4127
5°	4147	4116	4137
10°	4142	4116	4127
15°	4134	4098	4110
20°	4105	4067	4078
25°	4051	4012	4014
30°	3952	3911	3894
35°	3790	3721	3637
40°	3547	3457	3146
45°	3204	3083	2458
50°	2841	2503	2079
55°	2480	2054	1834
60°	2151	1690	1619
65°	1886	1356	1495
70°	1682	1149	1504
75°	1641	1212	1681
80°	1819	1530	1928
85°	1896	1633	2257



TEST NUMBER: P291122

CATALOG NUMBER: 14GR-LD5-36-A-UNV-L92765-W2A1-U-4500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.5	4.3
10°-20°	416.9	12.5
20°-30°	623.6	18.6
30°-40°	704.0	21.0
40°-50°	597.2	17.8
50°-60°	404.1	12.1
60°-70°	241.2	7.2
70°-80°	151.0	4.5
80°-90°	63.5	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°	1186.0	35.4
0°-40°	1890.0	56.5
0°-60°	2891.2	86.4
0°-90°	3347.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3347.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1534	1534	1534	1534	1534	
5°	1535	1531	1524	1534	1531	146
15°	1484	1481	1471	1481	1475	418
25°	1364	1360	1351	1357	1352	627
35°	1154	1146	1133	1122	1107	719
45°	842	845	810	694	646	649
55°	529	504	438	392	391	476
65°	296	246	213	227	235	296
75°	158	141	117	154	162	170
85°	61	58	53	68	73	66
90°	0	0	0	0	0	



TEST NUMBER: P291122

CATALOG NUMBER: 14GR-LD5-36-A-UNV-L92765-W2A1-U-4500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1533.7	1533.7	1533.7	1533.7	1533.7
2.5°	1539.2	1534.5	1527.5	1536.9	1536.1
5°	1535.3	1530.6	1523.6	1534.5	1531.4
7.5°	1528.3	1524.4	1517.4	1527.5	1524.4
10°	1515.9	1512.8	1506.5	1515.1	1510.4
12.5°	1502.6	1500.3	1492.5	1500.3	1495.7
15°	1484.0	1480.9	1470.8	1480.9	1475.4
17.5°	1460.7	1456.8	1448.2	1456.8	1452.1
20°	1433.5	1428.8	1420.2	1428.8	1424.1
22.5°	1400.8	1396.9	1389.2	1396.9	1390.7
25°	1364.3	1359.6	1351.1	1357.3	1351.8
27.5°	1322.3	1316.1	1308.3	1313.0	1309.9
30°	1271.8	1264.0	1258.6	1258.6	1253.1
32.5°	1216.6	1211.1	1201.8	1196.4	1189.4
35°	1153.6	1145.8	1132.6	1122.5	1107.0
37.5°	1086.0	1076.7	1060.3	1034.7	1013.7
40°	1009.8	998.1	984.1	933.6	895.5
42.5°	928.2	925.8	901.7	815.5	762.6
45°	841.9	845.0	810.0	694.2	646.0
47.5°	754.8	765.7	702.0	588.5	563.6
50°	678.6	682.5	597.8	510.7	496.7
52.5°	600.1	593.9	510.0	449.3	439.2
55°	528.6	503.7	437.7	391.8	391.0
57.5°	465.6	419.8	373.9	339.7	343.6
60°	399.6	348.3	314.1	295.4	300.8
62.5°	341.3	292.3	262.0	256.5	265.9
65°	296.2	245.6	213.0	227.0	234.8
67.5°	253.4	210.7	173.4	206.8	209.9
70°	213.8	182.7	146.1	190.5	191.2
72.5°	181.1	161.7	126.7	172.6	174.9
75°	157.8	140.7	116.6	153.9	161.7
77.5°	138.4	120.5	108.1	132.9	146.1
80°	117.4	97.2	98.7	111.2	124.4
82.5°	90.2	75.4	78.5	91.7	101.1
85°	61.4	58.3	52.9	68.4	73.1
87.5°	32.6	31.1	27.2	38.9	36.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)