

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: P291513

Luminaire Tested: **14GR-LD5-36-A19/156-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291513
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33288)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-36-A19/156-UNV-L92765-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3139.0 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

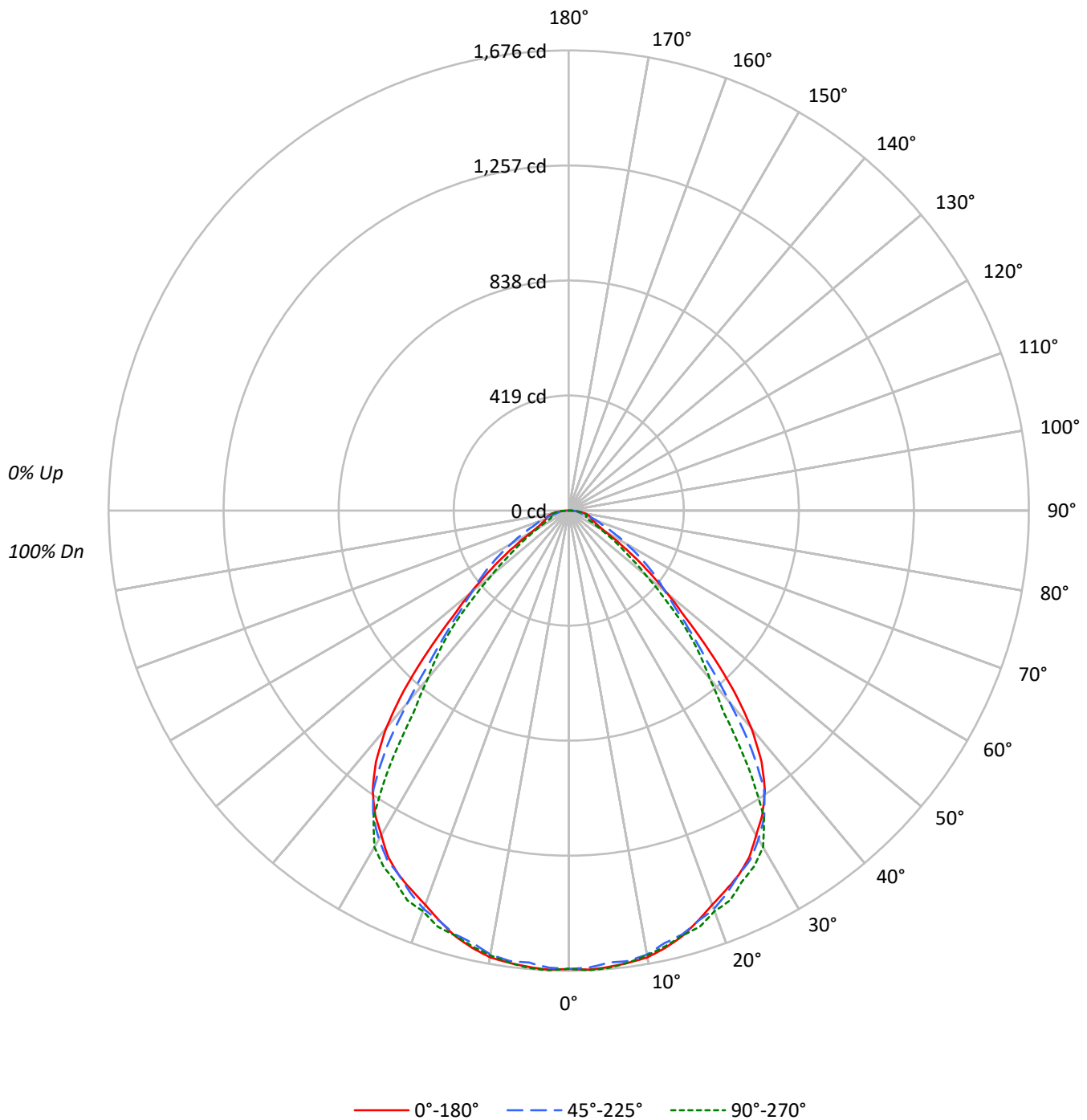
Input Watts (W): 29.667
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291513

CATALOG NUMBER: 14GR-LD5-36-A19/156-UNV-L92765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P291513

CATALOG NUMBER: 14GR-LD5-36-A19/156-UNV-L92765-W2A1-U-4000K

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	111	107	104	100	108	105	102	99	101	98	96		97	95	93		93
2	103	96	90	86	100	94	89	85	91	87	83		88	84	81		85
3	95	87	80	74	93	85	79	74	82	77	73		80	75	71		77
4	89	79	71	65	87	77	70	65	75	69	64		73	68	63		71
5	83	71	64	58	81	70	63	58	68	62	57		67	61	57		65
6	77	65	58	52	75	64	57	52	63	56	51		61	55	51		60
7	72	60	52	47	70	59	52	47	58	51	46		56	51	46		55
8	67	55	48	43	66	55	47	42	53	47	42		52	46	42		51
9	63	51	44	39	62	51	44	39	50	43	39		49	43	38		48
10	60	48	40	36	58	47	40	36	46	40	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4492	4492	4492
5°	4507	4464	4517
10°	4514	4486	4494
15°	4468	4452	4462
20°	4375	4422	4447
25°	4348	4346	4429
30°	4242	4294	4398
35°	4091	4074	3744
40°	3632	3206	2807
45°	2756	2398	2270
50°	1955	1919	1540
55°	1339	1638	1058
60°	828	1307	708
65°	682	1007	513
70°	678	876	526
75°	814	628	702
80°	936	580	880
85°	886	1022	997



TEST NUMBER: P291513

CATALOG NUMBER: 14GR-LD5-36-A19/156-UNV-L92765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.4	5.0
10°-20°	452.0	14.4
20°-30°	679.8	21.7
30°-40°	741.1	23.6
40°-50°	518.9	16.5
50°-60°	293.7	9.4
60°-70°	160.7	5.1
70°-80°	97.4	3.1
80°-90°	36.9	1.2
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°	1290.2	41.1
0°-40°	2031.3	64.7
0°-60°	2843.9	90.6
0°-90°	3139.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3139.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1669	1669	1669	1669	1669	
5°	1668	1666	1653	1672	1672	159
15°	1604	1600	1598	1621	1602	451
25°	1464	1467	1464	1498	1492	673
35°	1245	1240	1240	1177	1140	767
45°	724	756	630	622	596	563
55°	285	341	349	346	226	261
65°	107	176	158	200	80	110
75°	78	113	60	119	68	81
85°	29	47	33	40	32	32
90°	0	0	0	0	0	



TEST NUMBER: P291513

CATALOG NUMBER: 14GR-LD5-36-A19/156-UNV-L92765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1669.2	1669.2	1669.2	1669.2	1669.2
2.5°	1673.5	1671.4	1666.3	1676.4	1675.7
5°	1668.5	1665.6	1652.7	1672.1	1672.1
7.5°	1661.3	1654.1	1654.8	1665.6	1660.6
10°	1652.0	1639.7	1641.9	1644.8	1644.8
12.5°	1630.4	1618.9	1613.2	1622.5	1625.4
15°	1603.8	1599.5	1598.1	1621.1	1601.7
17.5°	1566.4	1575.8	1567.2	1585.8	1588.7
20°	1527.6	1545.6	1544.2	1557.1	1552.8
22.5°	1496.0	1507.5	1507.5	1523.3	1536.3
25°	1464.4	1467.3	1463.7	1497.5	1491.7
27.5°	1423.5	1421.3	1432.8	1450.0	1461.5
30°	1365.3	1366.0	1381.8	1404.8	1415.5
32.5°	1312.1	1305.6	1325.0	1335.1	1323.6
35°	1245.3	1239.5	1240.2	1177.0	1139.6
37.5°	1154.0	1159.0	1092.9	977.2	928.4
40°	1034.0	1044.1	912.6	826.3	799.0
42.5°	888.8	891.7	748.0	720.0	702.0
45°	724.3	755.9	630.2	622.3	596.4
47.5°	574.1	633.0	528.1	533.2	471.4
50°	467.1	526.0	458.4	460.6	367.9
52.5°	369.3	426.8	404.5	398.1	288.9
55°	285.3	341.3	349.2	346.3	225.6
57.5°	209.8	270.2	293.2	303.9	173.9
60°	153.8	220.6	242.9	264.4	131.5
62.5°	122.2	191.1	199.0	230.7	102.0
65°	107.1	176.0	158.1	199.8	80.5
67.5°	95.6	167.4	128.6	176.8	70.4
70°	86.2	150.9	111.4	158.1	66.8
72.5°	86.2	132.2	87.7	140.1	67.5
75°	78.3	112.8	60.4	118.6	67.5
77.5°	69.7	96.3	45.3	96.3	63.2
80°	60.4	75.4	37.4	74.0	56.8
82.5°	44.6	56.8	32.3	55.3	46.0
85°	28.7	46.7	33.1	40.2	32.3
87.5°	13.7	23.7	20.8	20.1	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)