

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: P291317

Luminaire Tested: **14GR-LD5-36-A125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291317
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-L92765-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3266.0 lumens
Efficiency: N/A
Efficacy: 110.1 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

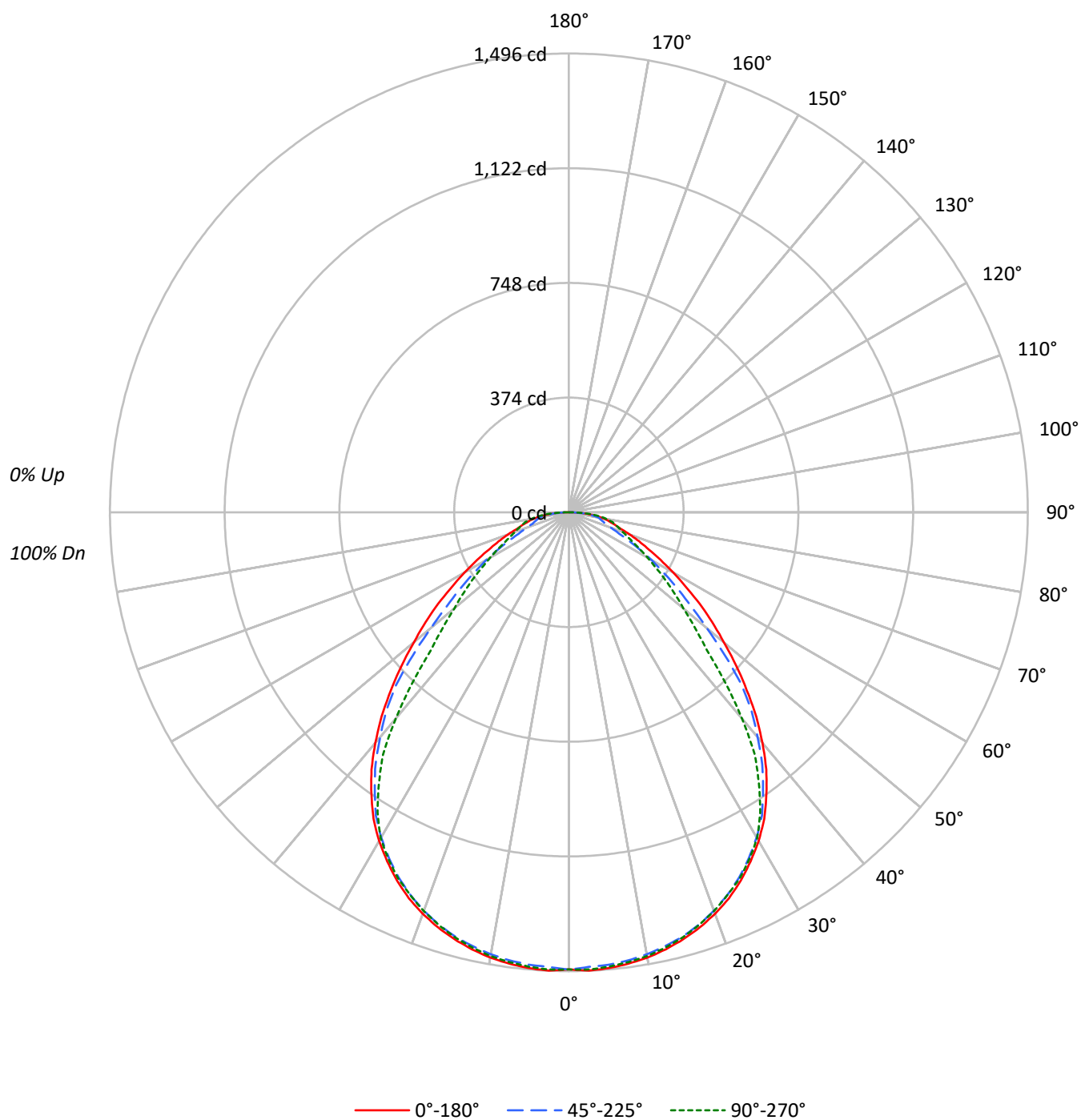
Input Watts (W): 29.667
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291317

CATALOG NUMBER: 14GR-LD5-36-A125-UNV-L92765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P291317

CATALOG NUMBER: 14GR-LD5-36-A125-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	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°	4011	4011	4011
5°	4030	3999	4018
10°	4029	3998	4015
15°	4015	3989	3996
20°	3988	3958	3962
25°	3935	3899	3910
30°	3845	3802	3812
35°	3686	3624	3547
40°	3447	3362	3085
45°	3120	3030	2419
50°	2760	2452	2040
55°	2442	2016	1799
60°	2108	1668	1595
65°	1833	1327	1466
70°	1657	1138	1467
75°	1592	1189	1639
80°	1773	1514	1914
85°	1871	1615	2294



TEST NUMBER: P291317

CATALOG NUMBER: 14GR-LD5-36-A125-UNV-L92765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.4	4.3
10°-20°	405.1	12.4
20°-30°	606.3	18.6
30°-40°	686.3	21.0
40°-50°	584.6	17.9
50°-60°	395.8	12.1
60°-70°	236.3	7.2
70°-80°	147.6	4.5
80°-90°	62.4	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°	1152.8	35.3
0°-40°	1839.2	56.3
0°-60°	2819.6	86.3
0°-90°	3266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3266.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1490	1490	1490	1490	1490	
5°	1492	1488	1480	1490	1487	142
15°	1441	1436	1432	1441	1434	407
25°	1325	1321	1313	1319	1317	609
35°	1122	1115	1103	1092	1080	699
45°	820	822	796	679	636	632
55°	520	492	430	383	383	465
65°	288	240	208	223	230	290
75°	153	137	114	150	158	165
85°	61	56	52	66	74	65
90°	0	0	0	0	0	



TEST NUMBER: P291317

CATALOG NUMBER: 14GR-LD5-36-A125-UNV-L92765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1490.4	1490.4	1490.4	1490.4	1490.4
2.5°	1495.7	1491.9	1483.6	1493.4	1491.9
5°	1491.9	1488.1	1480.5	1489.6	1487.3
7.5°	1484.3	1480.5	1473.7	1482.8	1479.0
10°	1474.5	1469.9	1463.1	1473.0	1469.2
12.5°	1459.3	1454.8	1448.7	1458.6	1453.3
15°	1441.1	1435.8	1432.0	1441.1	1434.3
17.5°	1419.2	1414.6	1409.3	1418.4	1410.8
20°	1392.6	1388.8	1382.0	1387.3	1383.5
22.5°	1362.3	1357.0	1350.2	1356.3	1351.0
25°	1325.2	1321.4	1313.1	1319.1	1316.9
27.5°	1282.8	1280.5	1270.6	1278.2	1274.4
30°	1237.3	1231.2	1223.7	1225.9	1226.7
32.5°	1185.0	1177.5	1171.4	1166.1	1160.8
35°	1122.1	1115.3	1103.2	1091.8	1079.7
37.5°	1057.0	1047.9	1035.8	1010.8	995.6
40°	981.2	976.7	957.0	922.1	878.2
42.5°	903.9	899.4	882.0	803.9	756.2
45°	819.8	822.1	796.3	678.9	635.7
47.5°	739.5	745.6	689.5	579.6	556.9
50°	659.2	666.0	585.7	500.8	487.2
52.5°	588.7	583.4	499.3	439.5	433.4
55°	520.5	491.7	429.6	383.4	383.4
57.5°	450.8	409.9	365.2	335.7	335.7
60°	391.7	341.0	309.9	290.2	296.3
62.5°	337.2	283.4	256.9	253.1	260.6
65°	287.9	240.2	208.4	222.8	230.3
67.5°	247.8	205.3	171.2	201.5	206.1
70°	210.6	178.8	144.7	185.6	186.4
72.5°	176.5	157.6	124.3	168.2	171.2
75°	153.1	137.1	114.4	150.0	157.6
77.5°	134.1	117.4	105.3	129.6	144.0
80°	114.4	96.2	97.7	109.1	123.5
82.5°	87.9	74.3	77.3	89.4	100.8
85°	60.6	56.1	52.3	65.9	74.3
87.5°	32.6	30.3	26.5	37.1	37.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)