

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: P291125

Luminaire Tested: **14GR-LD5-36-A-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291125
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-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3483.0 lumens
Efficiency: N/A
Efficacy: 115.2 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

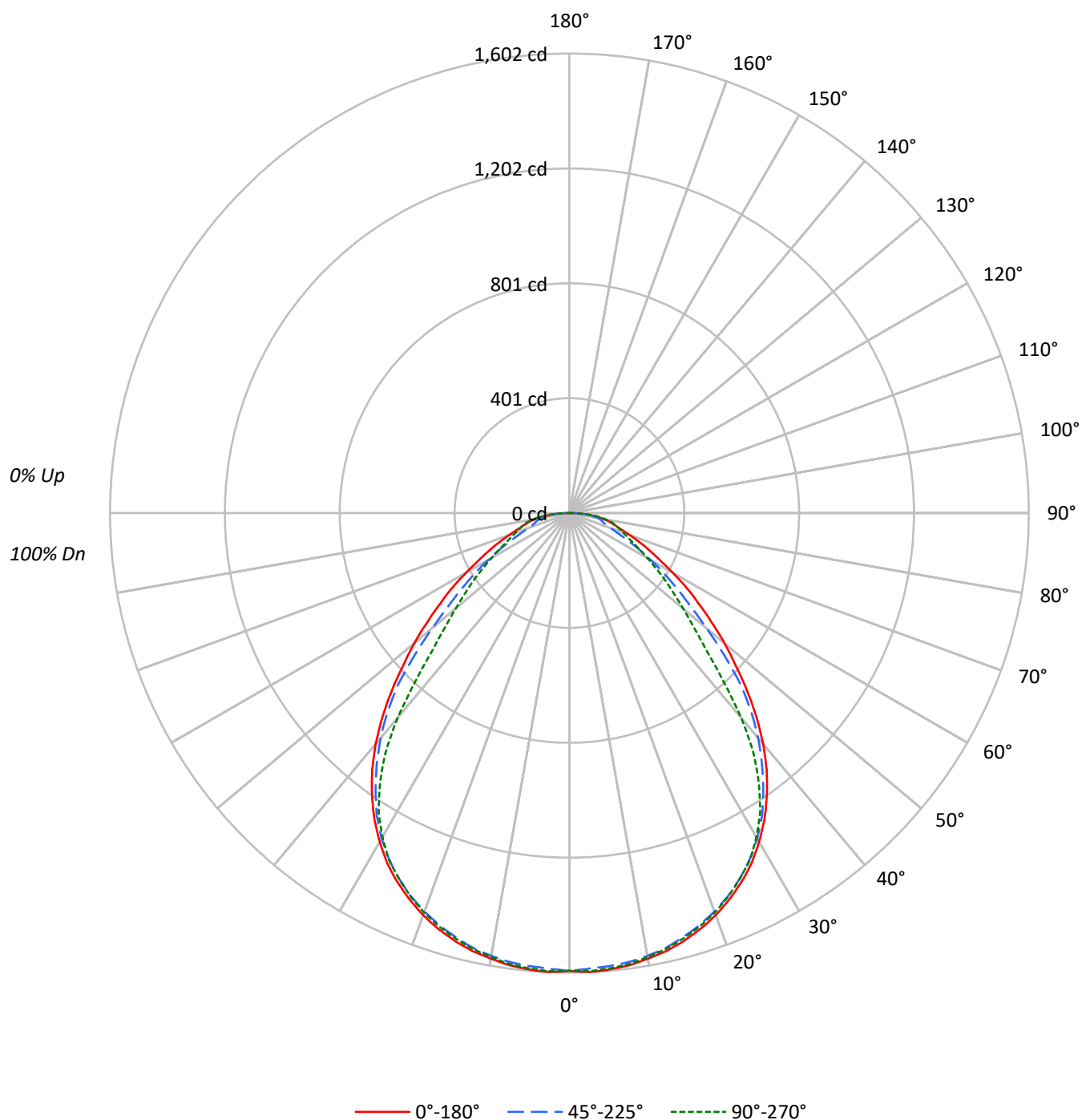
Input Watts (W): 30.225
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	83	99	92	86	82	88	84	80		85	81	78		82
3	93	84	76	71	91	82	75	70	79	74	69		77	72	68		74
4	86	75	67	61	84	74	67	61	72	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	57	48	43	67	56	48	43	54	47	42		53	47	42		52
8	65	52	44	38	63	51	44	38	50	43	38		49	43	38		48
9	61	48	40	35	59	47	40	35	46	39	35		45	39	35		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°	4295	4295	4295
5°	4316	4283	4305
10°	4311	4284	4295
15°	4302	4264	4277
20°	4272	4233	4244
25°	4215	4175	4177
30°	4112	4070	4052
35°	3944	3872	3784
40°	3691	3597	3274
45°	3334	3208	2558
50°	2956	2604	2164
55°	2581	2137	1909
60°	2238	1759	1685
65°	1962	1412	1556
70°	1751	1197	1566
75°	1707	1261	1750
80°	1894	1592	2005
85°	1973	1698	2347



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.4	4.3
10°-20°	433.8	12.5
20°-30°	648.9	18.6
30°-40°	732.5	21.0
40°-50°	621.5	17.8
50°-60°	420.5	12.1
60°-70°	251.0	7.2
70°-80°	157.2	4.5
80°-90°	66.1	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°	1234.2	35.4
0°-40°	1966.8	56.5
0°-60°	3008.7	86.4
0°-90°	3483.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3483.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1596	1596	1596	1596	1596	
5°	1598	1593	1586	1597	1594	152
15°	1544	1541	1530	1541	1535	435
25°	1420	1415	1406	1412	1407	653
35°	1200	1192	1179	1168	1152	748
45°	876	879	843	722	672	675
55°	550	524	455	408	407	496
65°	308	256	222	236	244	308
75°	164	146	121	160	168	177
85°	64	61	55	71	76	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1596.1	1596.1	1596.1	1596.1	1596.1
2.5°	1601.7	1596.9	1589.6	1599.3	1598.5
5°	1597.7	1592.8	1585.5	1596.9	1593.6
7.5°	1590.4	1586.4	1579.1	1589.6	1586.4
10°	1577.5	1574.2	1567.8	1576.6	1571.8
12.5°	1563.7	1561.3	1553.2	1561.3	1556.4
15°	1544.3	1541.1	1530.5	1541.1	1535.4
17.5°	1520.0	1516.0	1507.1	1516.0	1511.1
20°	1491.7	1486.9	1478.0	1486.9	1482.0
22.5°	1457.7	1453.7	1445.6	1453.7	1447.2
25°	1419.7	1414.9	1406.0	1412.4	1406.8
27.5°	1376.0	1369.6	1361.5	1366.3	1363.1
30°	1323.4	1315.4	1309.7	1309.7	1304.0
32.5°	1266.0	1260.3	1250.6	1245.0	1237.7
35°	1200.5	1192.4	1178.6	1168.1	1151.9
37.5°	1130.1	1120.4	1103.4	1076.7	1054.9
40°	1050.8	1038.7	1024.1	971.6	931.9
42.5°	965.9	963.5	938.4	848.6	793.6
45°	876.1	879.3	842.9	722.4	672.2
47.5°	785.5	796.8	730.5	612.4	586.5
50°	706.2	710.3	622.1	531.5	516.9
52.5°	624.5	618.0	530.7	467.6	457.1
55°	550.1	524.2	455.4	407.7	406.9
57.5°	484.6	436.8	389.1	353.5	357.6
60°	415.8	362.4	326.8	307.4	313.1
62.5°	355.1	304.2	272.6	267.0	276.7
65°	308.2	255.6	221.7	236.2	244.3
67.5°	263.7	219.2	180.4	215.2	218.4
70°	222.5	190.1	152.1	198.2	199.0
72.5°	188.5	168.3	131.9	179.6	182.0
75°	164.2	146.4	121.3	160.2	168.3
77.5°	144.0	125.4	112.4	138.3	152.1
80°	122.2	101.1	102.7	115.7	129.4
82.5°	93.8	78.5	81.7	95.5	105.2
85°	63.9	60.7	55.0	71.2	76.0
87.5°	34.0	32.4	28.3	40.4	38.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)