

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: P291320

Luminaire Tested: **14GR-LD5-36-A125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291320
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-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3471.0 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

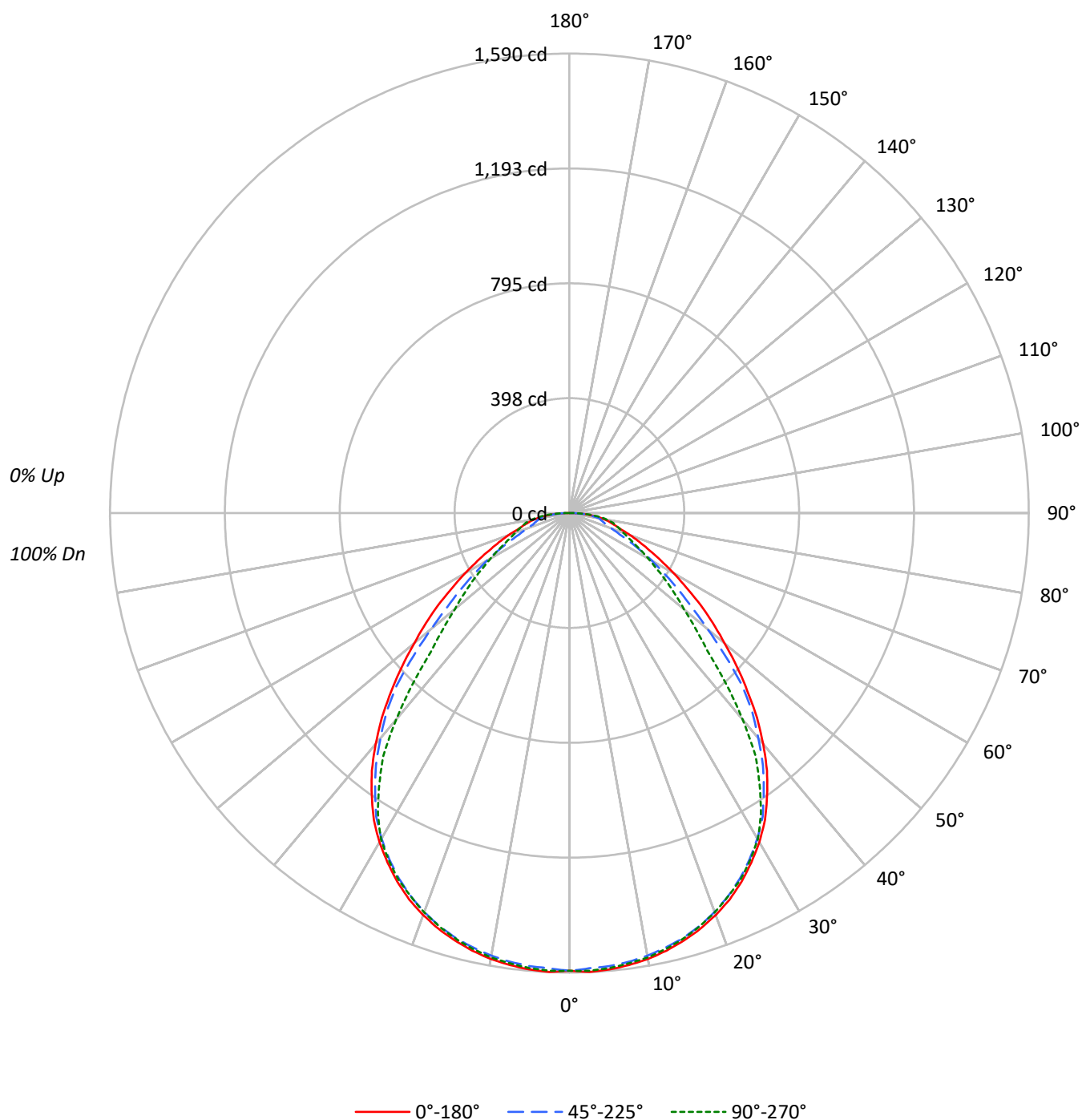
Input Watts (W): 30.132
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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		51
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°	4262	4262	4262
5°	4283	4250	4270
10°	4282	4249	4267
15°	4267	4240	4247
20°	4238	4206	4211
25°	4182	4143	4155
30°	4086	4041	4051
35°	3918	3851	3770
40°	3663	3573	3279
45°	3316	3221	2571
50°	2933	2606	2168
55°	2595	2142	1912
60°	2241	1772	1695
65°	1948	1410	1559
70°	1762	1210	1559
75°	1692	1264	1742
80°	1884	1610	2035
85°	1988	1717	2436



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.2	4.3
10°-20°	430.6	12.4
20°-30°	644.4	18.6
30°-40°	729.4	21.0
40°-50°	621.3	17.9
50°-60°	420.7	12.1
60°-70°	251.2	7.2
70°-80°	156.9	4.5
80°-90°	66.3	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°	1225.2	35.3
0°-40°	1954.6	56.3
0°-60°	2996.6	86.3
0°-90°	3471.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3471.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1584	1584	1584	1584	1584	
5°	1586	1582	1574	1583	1581	151
15°	1532	1526	1522	1532	1524	432
25°	1408	1404	1396	1402	1400	648
35°	1193	1185	1172	1160	1148	743
45°	871	874	846	722	676	672
55°	553	523	457	408	408	495
65°	306	255	221	237	245	308
75°	163	146	122	159	168	176
85°	64	60	56	70	79	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1583.9	1583.9	1583.9	1583.9	1583.9
2.5°	1589.6	1585.5	1576.7	1587.1	1585.5
5°	1585.5	1581.5	1573.5	1583.1	1580.7
7.5°	1577.5	1573.5	1566.2	1575.9	1571.8
10°	1567.0	1562.2	1554.9	1565.4	1561.4
12.5°	1550.9	1546.1	1539.6	1550.1	1544.5
15°	1531.6	1525.9	1521.9	1531.6	1524.3
17.5°	1508.2	1503.4	1497.8	1507.4	1499.4
20°	1480.0	1476.0	1468.8	1474.4	1470.4
22.5°	1447.8	1442.2	1435.0	1441.4	1435.8
25°	1408.4	1404.4	1395.5	1401.9	1399.5
27.5°	1363.3	1360.9	1350.4	1358.5	1354.4
30°	1315.0	1308.5	1300.5	1302.9	1303.7
32.5°	1259.4	1251.4	1244.9	1239.3	1233.6
35°	1192.6	1185.3	1172.4	1160.4	1147.5
37.5°	1123.3	1113.7	1100.8	1074.2	1058.1
40°	1042.8	1038.0	1017.0	980.0	933.3
42.5°	960.7	955.8	937.3	854.4	803.6
45°	871.3	873.7	846.3	721.5	675.6
47.5°	785.9	792.4	732.8	616.0	591.9
50°	700.6	707.8	622.5	532.3	517.8
52.5°	625.7	620.0	530.7	467.0	460.6
55°	553.2	522.6	456.6	407.5	407.5
57.5°	479.1	435.6	388.1	356.7	356.7
60°	416.3	362.4	329.3	308.4	314.9
62.5°	358.3	301.2	273.0	269.0	277.0
65°	306.0	255.3	221.4	236.7	244.8
67.5°	263.3	218.2	182.0	214.2	219.0
70°	223.9	190.0	153.8	197.3	198.1
72.5°	187.6	167.5	132.1	178.8	182.0
75°	162.7	145.8	121.6	159.4	167.5
77.5°	142.5	124.8	111.9	137.7	153.0
80°	121.6	102.3	103.9	116.0	131.3
82.5°	93.4	78.9	82.1	95.0	107.1
85°	64.4	59.6	55.6	70.1	78.9
87.5°	34.6	32.2	28.2	39.5	40.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)