

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: P291017

Luminaire Tested: **14GR-LD5-32-A-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291017
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-LD5-32-A-UNV-L82765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3437.0 lumens
Efficiency: N/A
Efficacy: 130.1 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

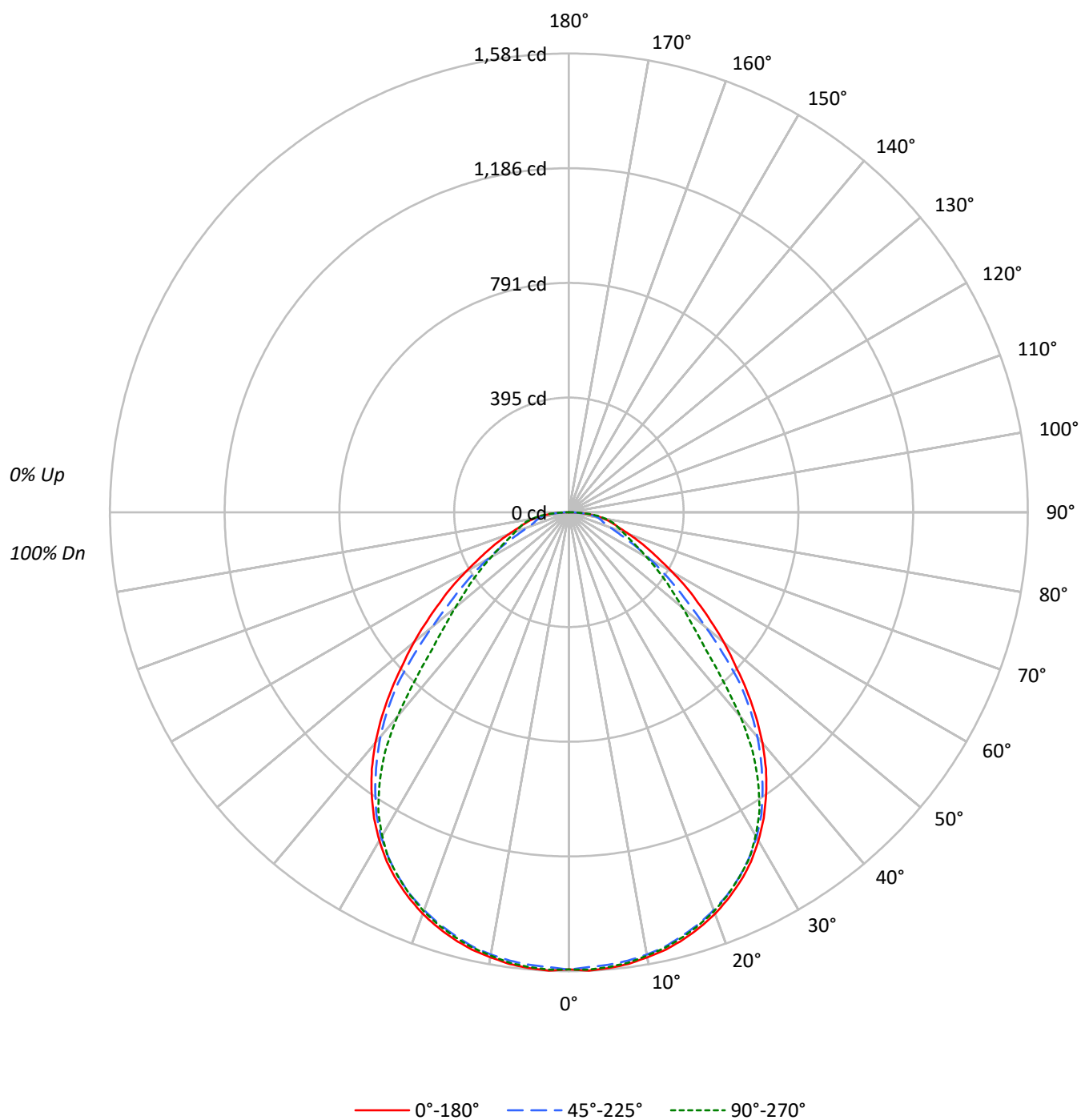
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		86
2	101	94	88	83	99	92	86	82	88	84	80		85	81	78		74
3	93	84	76	71	91	82	75	70	79	74	69		77	72	68		64
4	86	75	67	61	84	74	67	61	72	65	60		69	64	59		56
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		50
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		44
7	69	57	48	43	67	56	48	43	54	47	42		53	47	42		40
8	65	52	44	38	63	51	44	38	50	43	38		49	43	38		36
9	61	48	40	35	59	47	40	35	46	39	35		45	39	35		33
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4238	4238	4238
5°	4259	4226	4248
10°	4253	4227	4238
15°	4245	4208	4221
20°	4215	4176	4188
25°	4160	4119	4122
30°	4058	4016	3998
35°	3892	3821	3734
40°	3643	3550	3230
45°	3290	3166	2525
50°	2918	2570	2135
55°	2547	2108	1884
60°	2208	1736	1662
65°	1936	1393	1535
70°	1727	1181	1545
75°	1684	1245	1726
80°	1867	1571	1979
85°	1948	1677	2316



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.4	4.3
10°-20°	428.1	12.5
20°-30°	640.4	18.6
30°-40°	722.9	21.0
40°-50°	613.3	17.8
50°-60°	414.9	12.1
60°-70°	247.7	7.2
70°-80°	155.1	4.5
80°-90°	65.2	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°	1217.9	35.4
0°-40°	1940.8	56.5
0°-60°	2969.0	86.4
0°-90°	3437.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3437.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1575	1575	1575	1575	1575	
5°	1577	1572	1565	1576	1573	150
15°	1524	1521	1510	1521	1515	430
25°	1401	1396	1387	1394	1388	644
35°	1185	1177	1163	1153	1137	738
45°	864	868	832	713	663	666
55°	543	517	449	402	402	489
65°	304	252	219	233	241	304
75°	162	144	120	158	166	174
85°	63	60	54	70	75	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1575.0	1575.0	1575.0	1575.0	1575.0
2.5°	1580.6	1575.8	1568.6	1578.2	1577.4
5°	1576.6	1571.8	1564.6	1575.8	1572.6
7.5°	1569.4	1565.4	1558.2	1568.6	1565.4
10°	1556.6	1553.4	1547.0	1555.8	1551.0
12.5°	1543.1	1540.7	1532.7	1540.7	1535.9
15°	1523.9	1520.7	1510.3	1520.7	1515.1
17.5°	1499.9	1496.0	1487.2	1496.0	1491.2
20°	1472.0	1467.2	1458.4	1467.2	1462.4
22.5°	1438.5	1434.5	1426.5	1434.5	1428.1
25°	1401.0	1396.2	1387.4	1393.8	1388.2
27.5°	1357.9	1351.5	1343.5	1348.3	1345.1
30°	1306.0	1298.0	1292.4	1292.4	1286.8
32.5°	1249.3	1243.7	1234.1	1228.5	1221.4
35°	1184.6	1176.6	1163.1	1152.7	1136.7
37.5°	1115.2	1105.6	1088.8	1062.5	1040.9
40°	1037.0	1025.0	1010.6	958.7	919.6
42.5°	953.1	950.7	926.0	837.4	783.1
45°	864.5	867.7	831.8	712.9	663.4
47.5°	775.1	786.3	720.8	604.3	578.7
50°	696.9	700.9	613.9	524.5	510.1
52.5°	616.3	609.9	523.7	461.4	451.0
55°	542.8	517.3	449.4	402.3	401.5
57.5°	478.2	431.1	384.0	348.8	352.8
60°	410.3	357.6	322.5	303.3	308.9
62.5°	350.4	300.1	269.0	263.4	273.0
65°	304.1	252.3	218.7	233.1	241.1
67.5°	260.2	216.3	178.0	212.3	215.5
70°	219.5	187.6	150.1	195.6	196.4
72.5°	186.0	166.0	130.1	177.2	179.6
75°	162.0	144.5	119.7	158.1	166.0
77.5°	142.1	123.7	111.0	136.5	150.1
80°	120.5	99.8	101.4	114.2	127.7
82.5°	92.6	77.4	80.6	94.2	103.8
85°	63.1	59.9	54.3	70.2	75.0
87.5°	33.5	31.9	27.9	39.9	37.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)