

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: P291214

Luminaire Tested: **14GR-LD5-32-A125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291214
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-LD5-32-A125-UNV-L82765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3449.0 lumens
Efficiency: N/A
Efficacy: 130.6 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

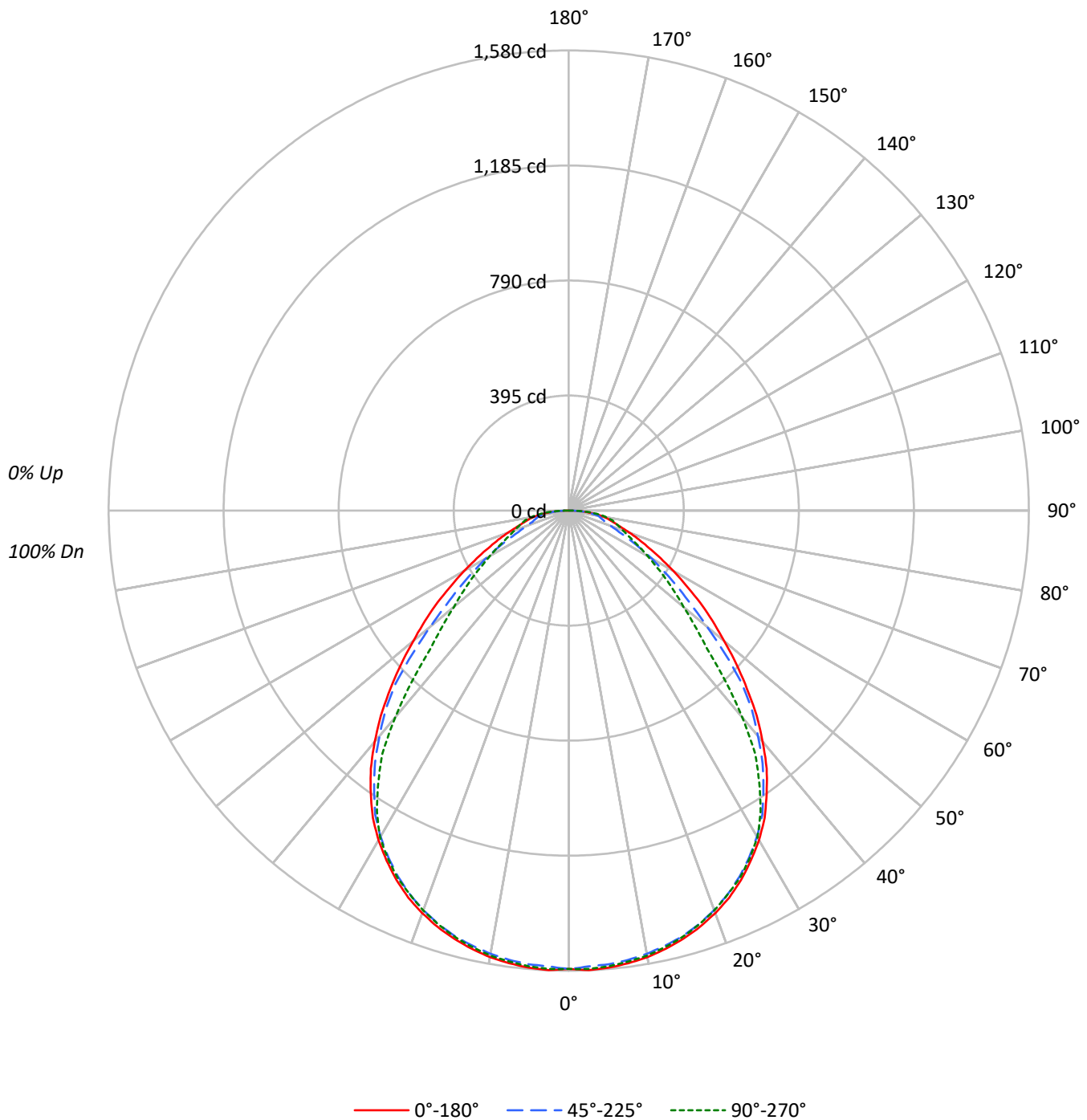
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	4235	4235	4235
5°	4256	4223	4243
10°	4255	4222	4239
15°	4240	4213	4220
20°	4212	4180	4184
25°	4155	4117	4129
30°	4060	4015	4025
35°	3893	3827	3746
40°	3640	3550	3258
45°	3295	3201	2555
50°	2914	2589	2154
55°	2579	2129	1900
60°	2227	1762	1684
65°	1936	1401	1549
70°	1750	1202	1548
75°	1680	1256	1730
80°	1872	1599	2021
85°	1976	1704	2421



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.3	4.3
10°-20°	427.8	12.4
20°-30°	640.3	18.6
30°-40°	724.8	21.0
40°-50°	617.4	17.9
50°-60°	418.0	12.1
60°-70°	249.5	7.2
70°-80°	155.9	4.5
80°-90°	65.9	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°	1217.4	35.3
0°-40°	1942.2	56.3
0°-60°	2977.6	86.3
0°-90°	3449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3449.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1574	1574	1574	1574	1574	
5°	1576	1572	1564	1573	1571	150
15°	1522	1516	1512	1522	1515	429
25°	1400	1396	1387	1393	1391	644
35°	1185	1178	1165	1153	1140	739
45°	866	868	841	717	671	668
55°	550	519	454	405	405	492
65°	304	254	220	235	243	306
75°	162	145	121	158	166	174
85°	64	59	55	70	78	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1573.9	1573.9	1573.9	1573.9	1573.9
2.5°	1579.5	1575.5	1566.7	1577.1	1575.5
5°	1575.5	1571.5	1563.5	1573.1	1570.7
7.5°	1567.5	1563.5	1556.3	1565.9	1561.9
10°	1557.1	1552.3	1545.1	1555.5	1551.5
12.5°	1541.1	1536.3	1529.9	1540.3	1534.7
15°	1521.9	1516.3	1512.3	1521.9	1514.7
17.5°	1498.7	1493.9	1488.3	1497.9	1489.9
20°	1470.7	1466.7	1459.5	1465.1	1461.1
22.5°	1438.7	1433.1	1425.9	1432.3	1426.7
25°	1399.5	1395.5	1386.7	1393.1	1390.7
27.5°	1354.6	1352.2	1341.8	1349.8	1345.8
30°	1306.6	1300.2	1292.2	1294.6	1295.4
32.5°	1251.4	1243.4	1237.0	1231.4	1225.8
35°	1185.0	1177.8	1165.0	1153.0	1140.2
37.5°	1116.2	1106.6	1093.8	1067.4	1051.4
40°	1036.2	1031.4	1010.6	973.8	927.4
42.5°	954.6	949.8	931.4	849.0	798.5
45°	865.8	868.2	841.0	716.9	671.3
47.5°	780.9	787.3	728.1	612.1	588.1
50°	696.1	703.3	618.5	528.9	514.5
52.5°	621.7	616.1	527.3	464.1	457.7
55°	549.7	519.3	453.7	404.9	404.9
57.5°	476.1	432.9	385.7	354.5	354.5
60°	413.7	360.1	327.3	306.5	312.9
62.5°	356.1	299.3	271.2	267.2	275.3
65°	304.1	253.6	220.0	235.2	243.2
67.5°	261.6	216.8	180.8	212.8	217.6
70°	222.4	188.8	152.8	196.0	196.8
72.5°	186.4	166.4	131.2	177.6	180.8
75°	161.6	144.8	120.8	158.4	166.4
77.5°	141.6	124.0	111.2	136.8	152.0
80°	120.8	101.6	103.2	115.2	130.4
82.5°	92.8	78.4	81.6	94.4	106.4
85°	64.0	59.2	55.2	69.6	78.4
87.5°	34.4	32.0	28.0	39.2	40.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)