

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: P291212

Luminaire Tested: **14GR-LD5-32-A125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291212
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-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3406.0 lumens
Efficiency: N/A
Efficacy: 129.9 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

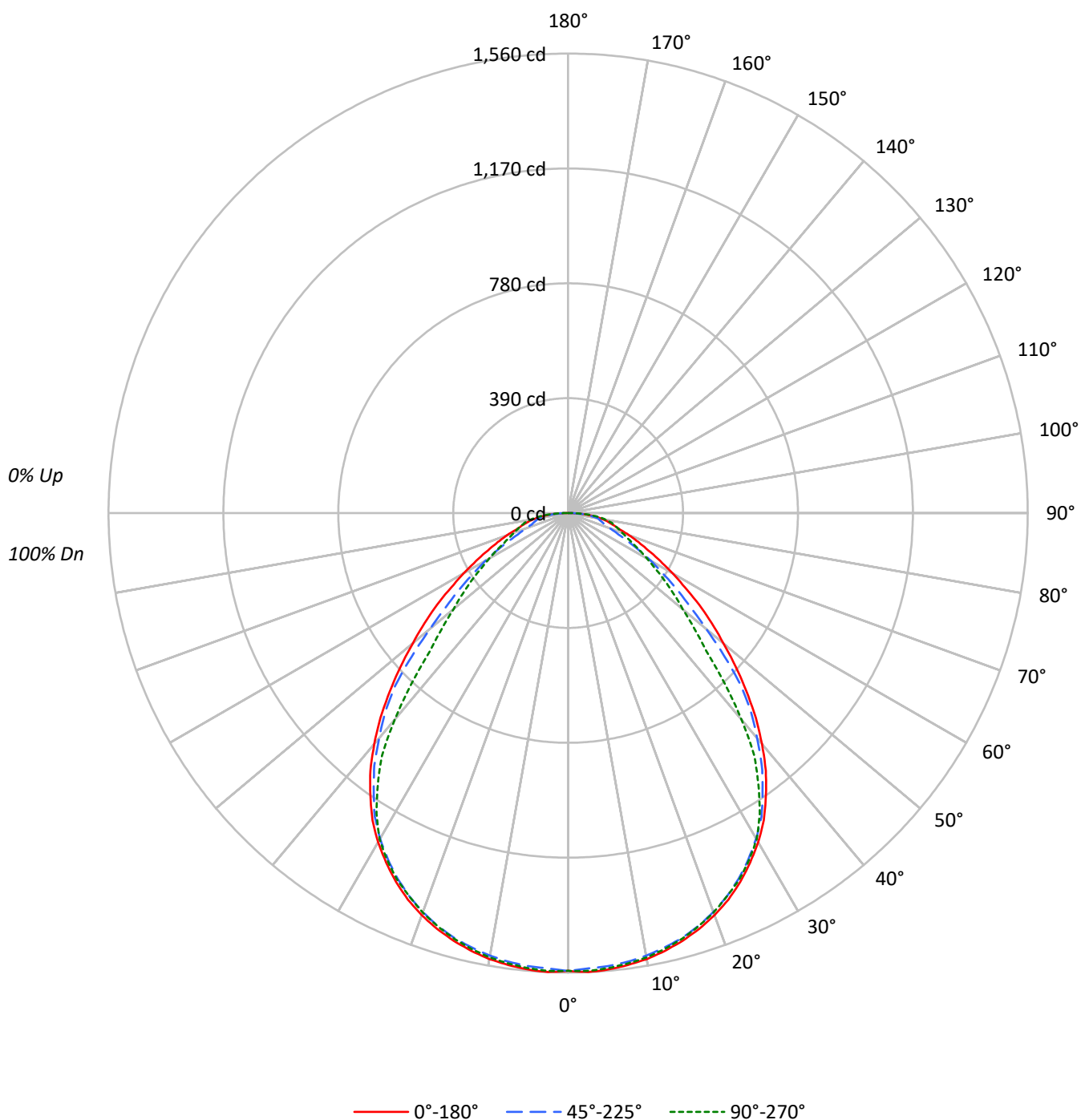
Input Watts (W): 26.226
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4183	4183	4183
5°	4203	4171	4190
10°	4202	4169	4186
15°	4187	4160	4167
20°	4159	4127	4132
25°	4103	4066	4078
30°	4009	3965	3975
35°	3844	3779	3699
40°	3595	3506	3217
45°	3254	3161	2523
50°	2878	2557	2127
55°	2547	2102	1876
60°	2199	1739	1663
65°	1912	1384	1529
70°	1729	1187	1530
75°	1659	1240	1709
80°	1849	1579	1996
85°	1951	1683	2390



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	4.3
10°-20°	422.5	12.4
20°-30°	632.3	18.6
30°-40°	715.8	21.0
40°-50°	609.7	17.9
50°-60°	412.8	12.1
60°-70°	246.5	7.2
70°-80°	154.0	4.5
80°-90°	65.1	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°	1202.2	35.3
0°-40°	1918.0	56.3
0°-60°	2940.5	86.3
0°-90°	3406.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3406.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1554	1554	1554	1554	1554	
5°	1556	1552	1544	1554	1551	148
15°	1503	1497	1493	1503	1496	424
25°	1382	1378	1369	1376	1373	636
35°	1170	1163	1150	1139	1126	729
45°	855	857	830	708	663	659
55°	543	513	448	400	400	485
65°	300	250	217	232	240	303
75°	160	143	119	156	164	172
85°	63	58	54	69	77	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1554.3	1554.3	1554.3	1554.3	1554.3
2.5°	1559.8	1555.8	1547.2	1557.4	1555.8
5°	1555.8	1551.9	1544.0	1553.5	1551.1
7.5°	1547.9	1544.0	1536.9	1546.4	1542.4
10°	1537.7	1532.9	1525.8	1536.1	1532.1
12.5°	1521.9	1517.1	1510.8	1521.1	1515.5
15°	1502.9	1497.4	1493.4	1502.9	1495.8
17.5°	1480.0	1475.2	1469.7	1479.2	1471.3
20°	1452.3	1448.4	1441.3	1446.8	1442.9
22.5°	1420.7	1415.2	1408.1	1414.4	1408.9
25°	1382.0	1378.1	1369.4	1375.7	1373.3
27.5°	1337.8	1335.4	1325.1	1333.0	1329.1
30°	1290.3	1284.0	1276.1	1278.5	1279.3
32.5°	1235.8	1227.9	1221.6	1216.1	1210.5
35°	1170.2	1163.1	1150.5	1138.6	1126.0
37.5°	1102.3	1092.8	1080.2	1054.1	1038.3
40°	1023.3	1018.5	998.0	961.6	915.8
42.5°	942.7	937.9	919.8	838.4	788.6
45°	855.0	857.3	830.5	708.0	663.0
47.5°	771.2	777.5	719.1	604.5	580.8
50°	687.4	694.6	610.8	522.3	508.1
52.5°	614.0	608.4	520.7	458.3	452.0
55°	542.8	512.8	448.0	399.8	399.8
57.5°	470.2	427.5	380.9	350.0	350.0
60°	408.5	355.6	323.2	302.6	309.0
62.5°	351.6	295.5	267.9	263.9	271.8
65°	300.3	250.5	217.3	232.3	240.2
67.5°	258.4	214.1	178.6	210.2	214.9
70°	219.7	186.5	150.9	193.6	194.4
72.5°	184.1	164.4	129.6	175.4	178.6
75°	159.6	143.0	119.3	156.5	164.4
77.5°	139.9	122.5	109.8	135.1	150.1
80°	119.3	100.4	101.9	113.8	128.8
82.5°	91.7	77.4	80.6	93.2	105.1
85°	63.2	58.5	54.5	68.7	77.4
87.5°	34.0	31.6	27.7	38.7	39.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)