

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: P291215

Luminaire Tested: **14GR-LD5-32-A125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291215
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-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3458.0 lumens
Efficiency: N/A
Efficacy: 129.1 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

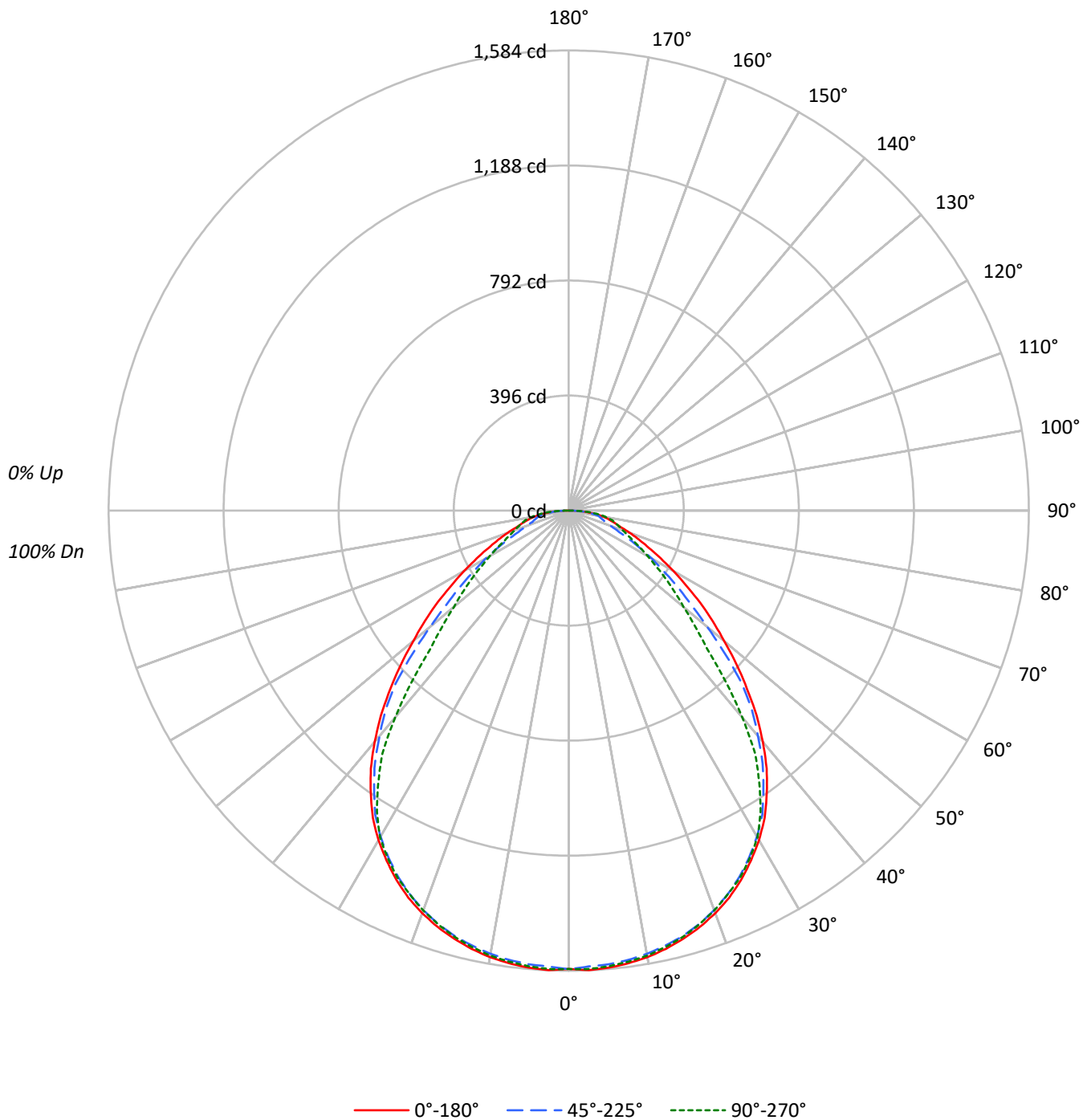
Input Watts (W): 26.784
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4246	4246	4246
5°	4267	4234	4254
10°	4266	4233	4250
15°	4251	4224	4231
20°	4222	4190	4195
25°	4166	4128	4140
30°	4071	4026	4036
35°	3903	3837	3756
40°	3649	3559	3266
45°	3303	3209	2562
50°	2922	2596	2159
55°	2586	2134	1904
60°	2232	1766	1688
65°	1941	1405	1553
70°	1755	1205	1552
75°	1685	1259	1735
80°	1877	1604	2027
85°	1982	1711	2427



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.7	4.3
10°-20°	429.0	12.4
20°-30°	642.0	18.6
30°-40°	726.7	21.0
40°-50°	619.0	17.9
50°-60°	419.1	12.1
60°-70°	250.2	7.2
70°-80°	156.3	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°	1220.6	35.3
0°-40°	1947.3	56.3
0°-60°	2985.4	86.3
0°-90°	3458.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3458.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1578	1578	1578	1578	1578	
5°	1580	1576	1568	1577	1575	150
15°	1526	1520	1516	1526	1519	430
25°	1403	1399	1390	1397	1394	645
35°	1188	1181	1168	1156	1143	741
45°	868	870	843	719	673	669
55°	551	521	455	406	406	493
65°	305	254	221	236	244	307
75°	162	145	121	159	167	175
85°	64	59	55	70	79	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1578.0	1578.0	1578.0	1578.0	1578.0
2.5°	1583.6	1579.6	1570.8	1581.2	1579.6
5°	1579.6	1575.6	1567.6	1577.2	1574.8
7.5°	1571.6	1567.6	1560.3	1570.0	1566.0
10°	1561.1	1556.3	1549.1	1559.5	1555.5
12.5°	1545.1	1540.3	1533.9	1544.3	1538.7
15°	1525.8	1520.2	1516.2	1525.8	1518.6
17.5°	1502.6	1497.8	1492.2	1501.8	1493.8
20°	1474.5	1470.5	1463.3	1468.9	1464.9
22.5°	1442.4	1436.8	1429.6	1436.0	1430.4
25°	1403.1	1399.1	1390.3	1396.7	1394.3
27.5°	1358.2	1355.8	1345.3	1353.4	1349.4
30°	1310.0	1303.6	1295.6	1298.0	1298.8
32.5°	1254.7	1246.7	1240.3	1234.6	1229.0
35°	1188.1	1180.9	1168.1	1156.0	1143.2
37.5°	1119.1	1109.5	1096.7	1070.2	1054.1
40°	1038.9	1034.1	1013.2	976.3	929.8
42.5°	957.1	952.3	933.8	851.2	800.6
45°	868.0	870.4	843.1	718.8	673.1
47.5°	783.0	789.4	730.0	613.7	589.6
50°	697.9	705.2	620.1	530.3	515.8
52.5°	623.3	617.7	528.7	465.3	458.9
55°	551.1	520.6	454.9	405.9	405.9
57.5°	477.3	434.0	386.7	355.4	355.4
60°	414.8	361.0	328.1	307.3	313.7
62.5°	357.0	300.0	272.0	267.9	276.0
65°	304.8	254.3	220.6	235.9	243.9
67.5°	262.3	217.4	181.3	213.4	218.2
70°	223.0	189.3	153.2	196.5	197.3
72.5°	186.9	166.9	131.6	178.1	181.3
75°	162.1	145.2	121.1	158.8	166.9
77.5°	142.0	124.3	111.5	137.2	152.4
80°	121.1	101.9	103.5	115.5	130.8
82.5°	93.1	78.6	81.8	94.7	106.7
85°	64.2	59.4	55.4	69.8	78.6
87.5°	34.5	32.1	28.1	39.3	40.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)