

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: P291161

Luminaire Tested: **14GR-LD5-32-A125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291161
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-L83050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3308.0 lumens
Efficiency: N/A
Efficacy: 128.9 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

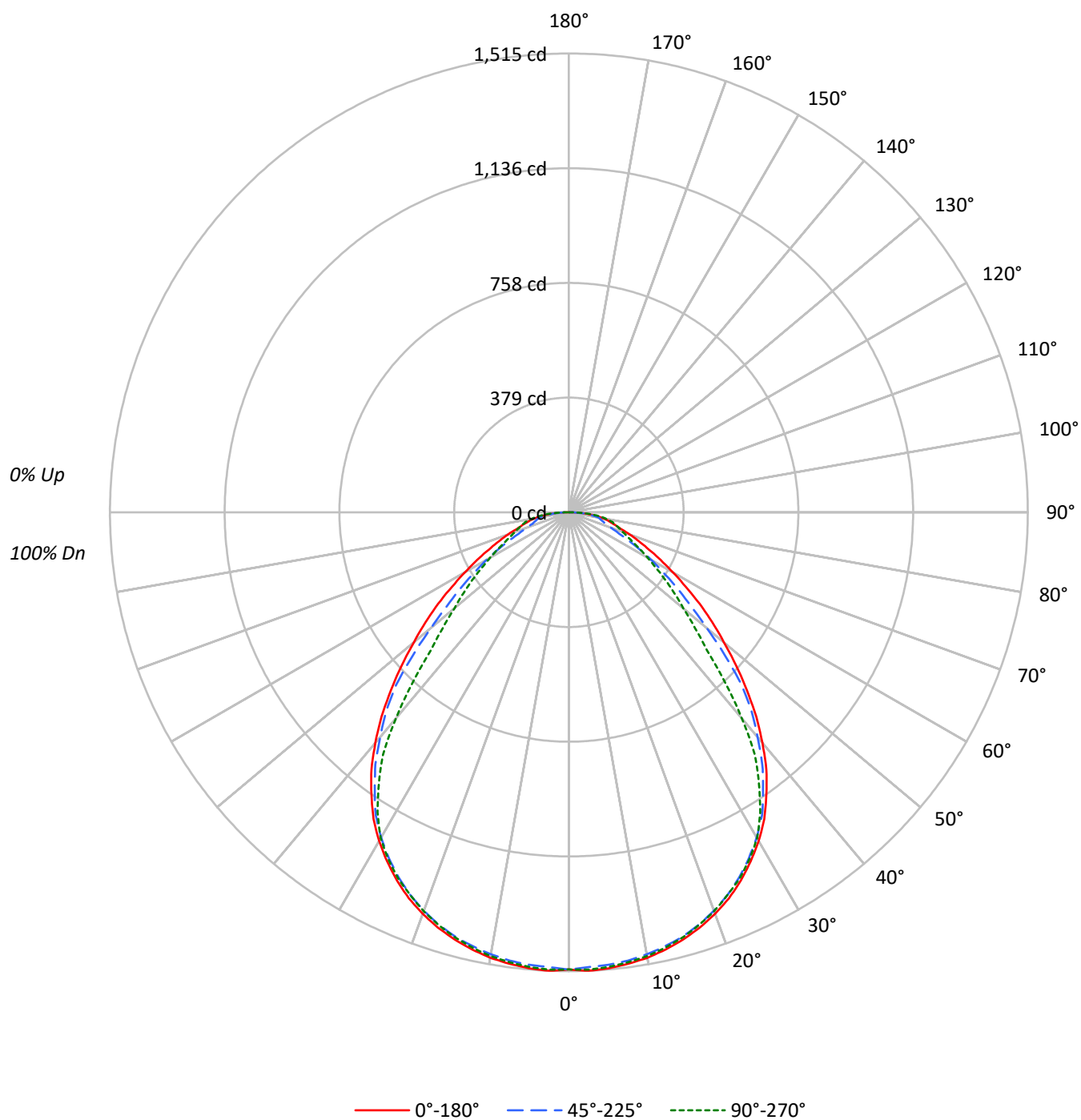
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4062	4062	4062
5°	4082	4051	4069
10°	4081	4049	4066
15°	4067	4041	4047
20°	4039	4009	4013
25°	3985	3949	3960
30°	3894	3851	3861
35°	3734	3671	3593
40°	3491	3405	3125
45°	3160	3070	2450
50°	2795	2483	2066
55°	2473	2041	1822
60°	2136	1689	1615
65°	1857	1344	1486
70°	1678	1153	1485
75°	1612	1205	1659
80°	1796	1534	1939
85°	1896	1636	2322



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	4.3
10°-20°	410.3	12.4
20°-30°	614.1	18.6
30°-40°	695.2	21.0
40°-50°	592.1	17.9
50°-60°	400.9	12.1
60°-70°	239.4	7.2
70°-80°	149.5	4.5
80°-90°	63.2	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°	1167.7	35.3
0°-40°	1862.8	56.3
0°-60°	2855.9	86.3
0°-90°	3308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3308.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1510	1510	1510	1510	1510	
5°	1511	1507	1500	1509	1506	144
15°	1460	1454	1450	1460	1453	412
25°	1342	1338	1330	1336	1334	617
35°	1137	1130	1117	1106	1094	708
45°	830	833	807	688	644	640
55°	527	498	435	388	388	471
65°	292	243	211	226	233	294
75°	155	139	116	152	160	167
85°	61	57	53	67	75	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1509.5	1509.5	1509.5	1509.5	1509.5
2.5°	1514.9	1511.1	1502.6	1512.6	1511.1
5°	1511.1	1507.2	1499.6	1508.8	1506.5
7.5°	1503.4	1499.6	1492.7	1501.9	1498.0
10°	1493.4	1488.8	1481.9	1491.9	1488.1
12.5°	1478.1	1473.5	1467.3	1477.3	1471.9
15°	1459.7	1454.3	1450.5	1459.7	1452.8
17.5°	1437.4	1432.8	1427.4	1436.6	1429.0
20°	1410.5	1406.7	1399.8	1405.2	1401.3
22.5°	1379.8	1374.5	1367.6	1373.7	1368.3
25°	1342.2	1338.4	1330.0	1336.1	1333.8
27.5°	1299.3	1297.0	1287.0	1294.7	1290.8
30°	1253.2	1247.1	1239.4	1241.7	1242.5
32.5°	1200.3	1192.6	1186.5	1181.1	1175.7
35°	1136.6	1129.7	1117.4	1105.9	1093.6
37.5°	1070.6	1061.4	1049.1	1023.8	1008.4
40°	993.8	989.2	969.3	934.0	889.5
42.5°	915.5	910.9	893.3	814.2	765.9
45°	830.4	832.7	806.6	687.6	643.9
47.5°	749.0	755.2	698.4	587.1	564.1
50°	667.7	674.6	593.2	507.3	493.5
52.5°	596.3	590.9	505.7	445.1	439.0
55°	527.2	498.1	435.1	388.3	388.3
57.5°	456.6	415.2	369.9	340.0	340.0
60°	396.8	345.3	313.9	293.9	300.1
62.5°	341.5	287.0	260.2	256.3	264.0
65°	291.6	243.3	211.0	225.6	233.3
67.5°	251.0	208.0	173.4	204.1	208.7
70°	213.3	181.1	146.6	188.0	188.8
72.5°	178.8	159.6	125.9	170.4	173.4
75°	155.0	138.9	115.9	152.0	159.6
77.5°	135.8	119.0	106.7	131.2	145.8
80°	115.9	97.5	99.0	110.5	125.1
82.5°	89.0	75.2	78.3	90.6	102.1
85°	61.4	56.8	53.0	66.8	75.2
87.5°	33.0	30.7	26.9	37.6	38.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)