

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: P291166

Luminaire Tested: **14GR-LD5-36-A125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291166
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-LD5-36-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: 3698.0 lumens
Efficiency: N/A
Efficacy: 126.2 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

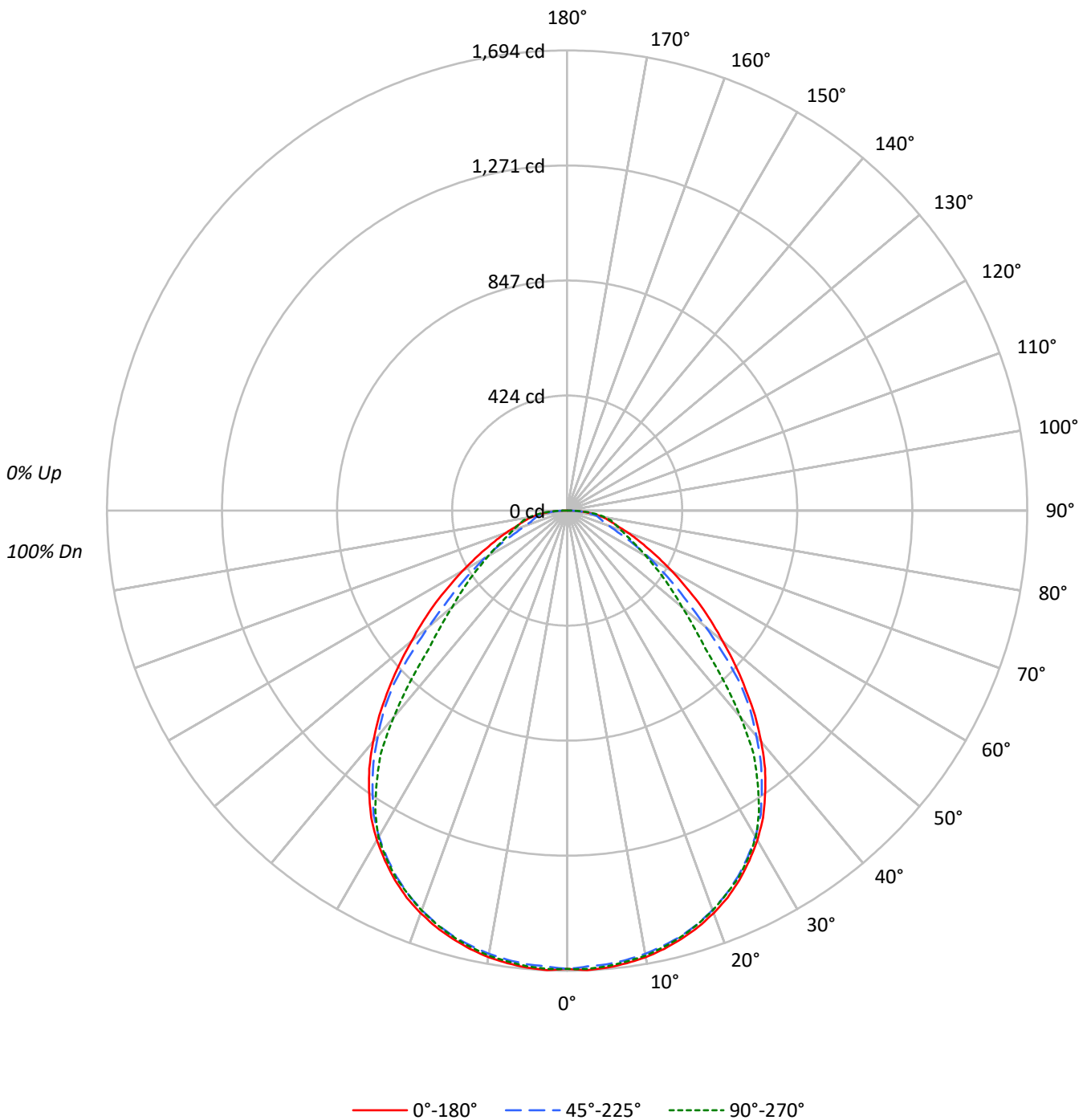
Input Watts (W): 29.295
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4541	4541	4541
5°	4563	4528	4549
10°	4562	4527	4545
15°	4546	4517	4524
20°	4515	4481	4486
25°	4455	4415	4427
30°	4353	4305	4316
35°	4174	4103	4016
40°	3903	3806	3493
45°	3533	3432	2739
50°	3125	2776	2309
55°	2765	2282	2037
60°	2387	1889	1805
65°	2076	1502	1661
70°	1876	1290	1660
75°	1802	1346	1855
80°	2007	1715	2166
85°	2118	1828	2597



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	4.3
10°-20°	458.7	12.4
20°-30°	686.5	18.6
30°-40°	777.1	21.0
40°-50°	661.9	17.9
50°-60°	448.2	12.1
60°-70°	267.6	7.2
70°-80°	167.2	4.5
80°-90°	70.7	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°	1305.3	35.3
0°-40°	2082.4	56.3
0°-60°	3192.6	86.3
0°-90°	3698.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3698.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1688	1688	1688	1688	1688	
5°	1689	1685	1676	1687	1684	161
15°	1632	1626	1622	1632	1624	460
25°	1500	1496	1487	1494	1491	690
35°	1271	1263	1249	1236	1222	792
45°	928	931	902	769	720	716
55°	589	557	486	434	434	527
65°	326	272	236	252	261	329
75°	173	155	130	170	178	187
85°	69	64	59	75	84	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1687.5	1687.5	1687.5	1687.5	1687.5
2.5°	1693.5	1689.2	1679.8	1690.9	1689.2
5°	1689.2	1684.9	1676.4	1686.7	1684.1
7.5°	1680.7	1676.4	1668.6	1678.9	1674.6
10°	1669.5	1664.4	1656.6	1667.8	1663.5
12.5°	1652.3	1647.2	1640.3	1651.5	1645.5
15°	1631.7	1625.7	1621.5	1631.7	1624.0
17.5°	1606.9	1601.7	1595.7	1606.0	1597.4
20°	1576.8	1572.6	1564.8	1570.8	1566.5
22.5°	1542.5	1536.5	1528.8	1535.7	1529.7
25°	1500.5	1496.2	1486.8	1493.6	1491.1
27.5°	1452.4	1449.9	1438.7	1447.3	1443.0
30°	1401.0	1394.1	1385.5	1388.1	1389.0
32.5°	1341.8	1333.2	1326.3	1320.3	1314.3
35°	1270.6	1262.8	1249.1	1236.3	1222.5
37.5°	1196.8	1186.5	1172.8	1144.5	1127.3
40°	1111.0	1105.8	1083.5	1044.1	994.3
42.5°	1023.5	1018.3	998.6	910.2	856.2
45°	928.3	930.8	901.7	768.7	719.8
47.5°	837.3	844.2	780.7	656.3	630.6
50°	746.4	754.1	663.2	567.1	551.6
52.5°	666.6	660.6	565.4	497.6	490.7
55°	589.4	556.8	486.4	434.1	434.1
57.5°	510.5	464.1	413.5	380.1	380.1
60°	443.5	386.1	350.9	328.6	335.4
62.5°	381.8	320.9	290.8	286.5	295.1
65°	326.0	272.0	235.9	252.2	260.8
67.5°	280.5	232.5	193.9	228.2	233.4
70°	238.5	202.5	163.9	210.2	211.0
72.5°	199.9	178.4	140.7	190.5	193.9
75°	173.3	155.3	129.5	169.9	178.4
77.5°	151.9	133.0	119.2	146.7	163.0
80°	129.5	109.0	110.7	123.5	139.8
82.5°	99.5	84.1	87.5	101.2	114.1
85°	68.6	63.5	59.2	74.6	84.1
87.5°	36.9	34.3	30.0	42.0	42.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)