

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: P291223

Luminaire Tested: **14GR-LD5-36-A125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291223
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-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: 3855.0 lumens
Efficiency: N/A
Efficacy: 127.9 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

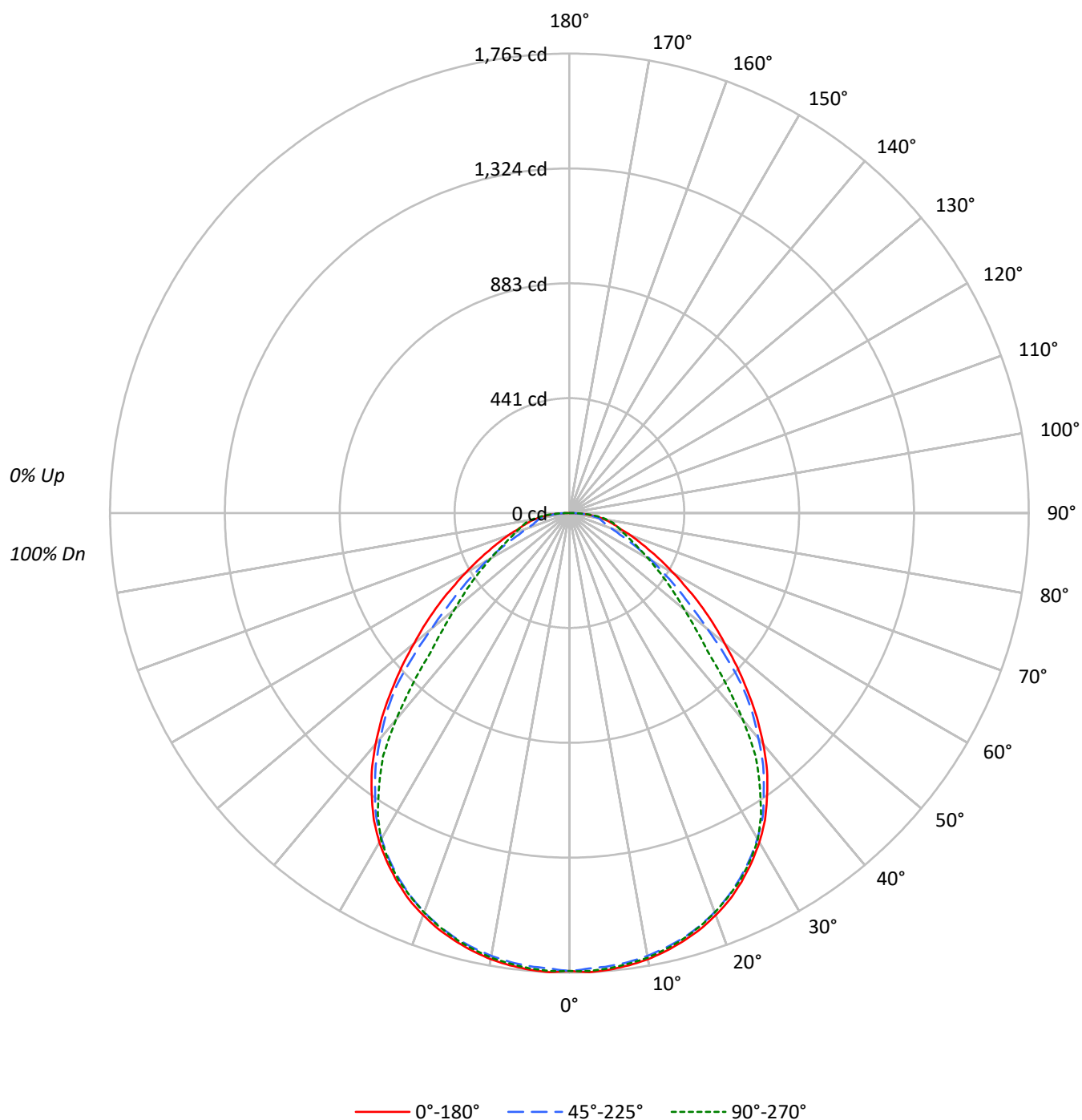
Input Watts (W): 30.132
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4734	4734	4734
5°	4757	4720	4742
10°	4756	4719	4738
15°	4739	4709	4717
20°	4707	4672	4677
25°	4644	4602	4615
30°	4538	4488	4499
35°	4351	4278	4187
40°	4069	3968	3641
45°	3683	3577	2855
50°	3257	2894	2408
55°	2883	2379	2123
60°	2489	1969	1882
65°	2164	1566	1731
70°	1956	1344	1731
75°	1879	1404	1934
80°	2092	1788	2259
85°	2208	1905	2705



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.9	4.3
10°-20°	478.2	12.4
20°-30°	715.7	18.6
30°-40°	810.1	21.0
40°-50°	690.0	17.9
50°-60°	467.2	12.1
60°-70°	278.9	7.2
70°-80°	174.3	4.5
80°-90°	73.7	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°	1360.7	35.3
0°-40°	2170.8	56.3
0°-60°	3328.1	86.3
0°-90°	3855.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3855.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1759	1759	1759	1759	1759	
5°	1761	1756	1748	1758	1756	167
15°	1701	1695	1690	1701	1693	480
25°	1564	1560	1550	1557	1554	719
35°	1324	1316	1302	1289	1274	826
45°	968	970	940	801	750	746
55°	614	580	507	452	452	549
65°	340	284	246	263	272	343
75°	181	162	135	177	186	195
85°	72	66	62	78	88	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1759.2	1759.2	1759.2	1759.2	1759.2
2.5°	1765.4	1760.9	1751.1	1762.7	1760.9
5°	1760.9	1756.5	1747.5	1758.3	1755.6
7.5°	1752.0	1747.5	1739.5	1750.2	1745.7
10°	1740.4	1735.0	1727.0	1738.6	1734.1
12.5°	1722.5	1717.1	1710.0	1721.6	1715.3
15°	1701.0	1694.8	1690.3	1701.0	1693.0
17.5°	1675.1	1669.7	1663.5	1674.2	1665.3
20°	1643.8	1639.3	1631.3	1637.5	1633.1
22.5°	1608.0	1601.8	1593.7	1600.9	1594.6
25°	1564.2	1559.7	1549.9	1557.0	1554.4
27.5°	1514.1	1511.4	1499.8	1508.7	1504.3
30°	1460.4	1453.3	1444.4	1447.0	1447.9
32.5°	1398.7	1389.8	1382.6	1376.4	1370.1
35°	1324.5	1316.5	1302.2	1288.7	1274.4
37.5°	1247.6	1236.9	1222.6	1193.0	1175.2
40°	1158.2	1152.8	1129.5	1088.4	1036.5
42.5°	1066.9	1061.6	1041.0	948.9	892.5
45°	967.7	970.4	939.9	801.3	750.3
47.5°	872.9	880.0	813.8	684.2	657.3
50°	778.1	786.1	691.3	591.2	575.1
52.5°	694.9	688.6	589.4	518.7	511.6
55°	614.4	580.4	507.1	452.5	452.5
57.5°	532.1	483.8	431.1	396.2	396.2
60°	462.4	402.5	365.8	342.5	349.7
62.5°	398.0	334.5	303.2	298.7	307.7
65°	339.8	283.5	245.9	262.9	271.9
67.5°	292.4	242.4	202.1	237.9	243.3
70°	248.6	211.1	170.8	219.1	220.0
72.5°	208.4	186.0	146.7	198.5	202.1
75°	180.7	161.9	135.0	177.1	186.0
77.5°	158.3	138.6	124.3	152.9	169.9
80°	135.0	113.6	115.4	128.8	145.8
82.5°	103.7	87.6	91.2	105.5	118.9
85°	71.5	66.2	61.7	77.8	87.6
87.5°	38.5	35.8	31.3	43.8	44.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)