

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: P290742

Luminaire Tested: **14GR-LD5-40-F1-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-F1-UNV-L92765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3856.0 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

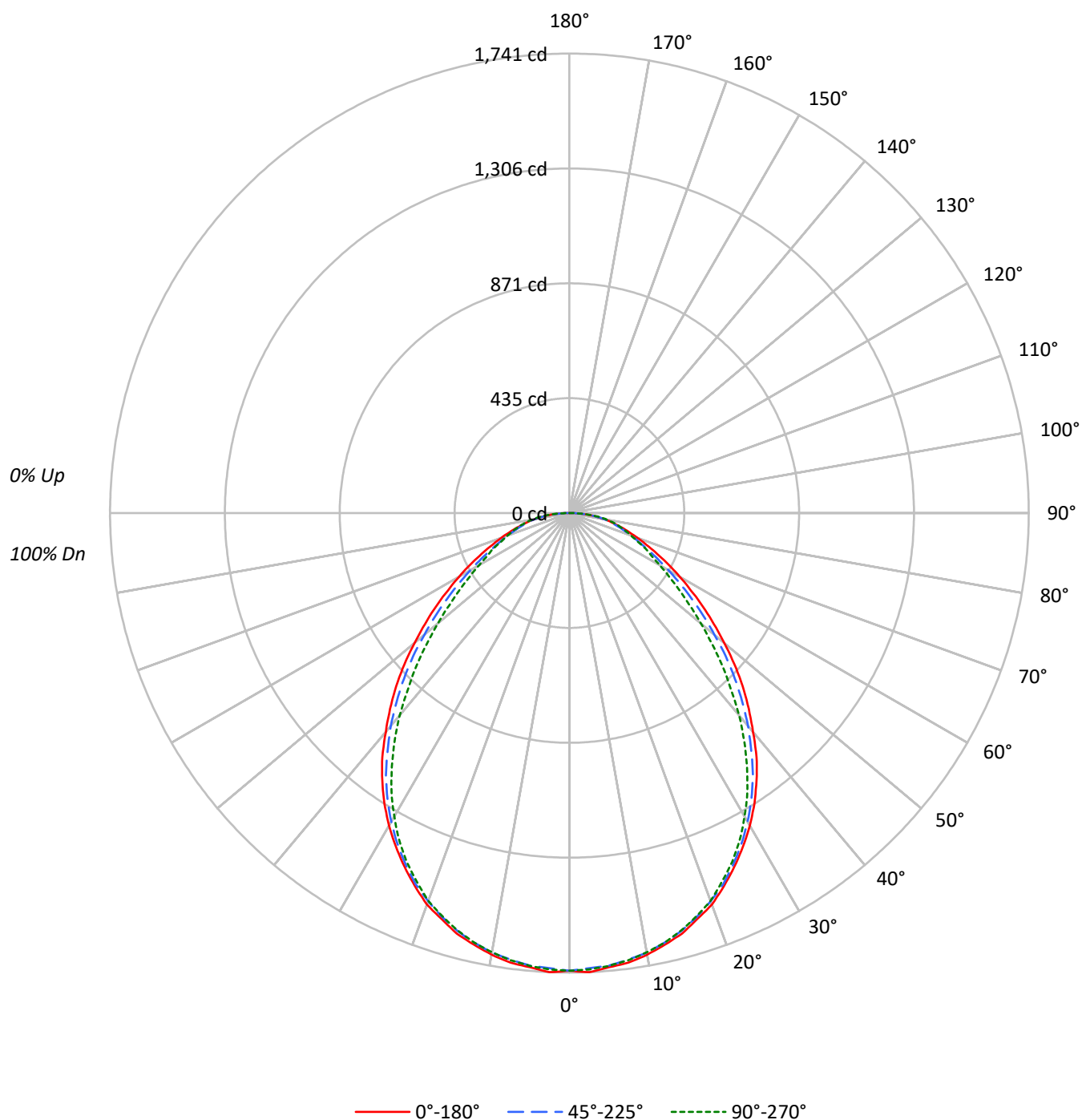
Input Watts (W): 34.689
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	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			100
1	110	105	101	98	107	103	99	96		99	96	93			95	92	90			85
2	101	93	87	81	98	91	85	80		88	83	78			84	80	77			73
3	92	83	75	69	90	81	74	68		78	72	67			75	70	66			63
4	85	74	66	59	83	73	65	59		70	64	58			68	62	57			55
5	79	67	58	52	77	66	58	52		64	57	51			62	55	51			48
6	73	61	52	46	71	60	52	46		58	51	45			56	50	45			43
7	68	55	47	41	66	54	47	41		53	46	41			52	45	40			38
8	64	51	43	37	62	50	42	37		49	42	37			47	41	36			34
9	60	47	39	34	58	46	39	33		45	38	33			44	38	33			31
10	56	43	36	31	55	43	35	31		42	35	30			41	35	30			29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4666	4666	4666
5°	4665	4649	4651
10°	4642	4620	4618
15°	4595	4568	4560
20°	4521	4483	4478
25°	4391	4362	4330
30°	4249	4196	4125
35°	4062	3984	3853
40°	3803	3698	3515
45°	3532	3374	3128
50°	3204	3005	2723
55°	2898	2654	2380
60°	2602	2326	2122
65°	2336	2076	2032
70°	2156	1933	1954
75°	2059	1939	2049
80°	2081	2069	2233
85°	2155	2127	2374



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.7	4.2
10°-20°	462.8	12.0
20°-30°	675.9	17.5
30°-40°	753.1	19.5
40°-50°	678.6	17.6
50°-60°	507.2	13.2
60°-70°	334.6	8.7
70°-80°	204.3	5.3
80°-90°	75.8	2.0
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°	1302.4	33.8
0°-40°	2055.5	53.3
0°-60°	3241.4	84.1
0°-90°	3856.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3856.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1734	1734	1734	1734	1734	
5°	1727	1725	1721	1730	1722	164
15°	1649	1643	1640	1649	1637	464
25°	1479	1473	1469	1472	1458	681
35°	1236	1226	1213	1191	1173	771
45°	928	918	886	846	822	714
55°	618	608	566	519	507	553
65°	367	355	326	313	319	368
75°	198	194	186	193	197	211
85°	70	67	69	76	77	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1734.1	1734.1	1734.1	1734.1	1734.1
2.5°	1741.2	1733.3	1726.2	1736.8	1730.6
5°	1727.1	1725.3	1720.9	1729.7	1721.8
7.5°	1718.2	1712.0	1706.7	1717.3	1708.5
10°	1698.8	1695.3	1690.8	1699.7	1689.9
12.5°	1674.9	1671.4	1667.0	1677.6	1667.0
15°	1649.3	1643.1	1639.6	1649.3	1636.9
17.5°	1612.2	1609.5	1604.2	1613.9	1601.6
20°	1578.6	1568.9	1565.3	1572.4	1563.6
22.5°	1530.0	1522.9	1522.0	1526.4	1511.4
25°	1478.7	1473.4	1469.0	1471.6	1458.4
27.5°	1424.8	1417.7	1412.4	1411.5	1397.4
30°	1367.3	1358.5	1350.5	1343.5	1327.6
32.5°	1304.6	1294.0	1283.4	1271.9	1255.1
35°	1236.5	1225.9	1212.7	1191.4	1172.9
37.5°	1164.9	1152.6	1131.3	1106.6	1088.0
40°	1082.7	1076.5	1052.7	1020.9	1000.5
42.5°	1005.8	998.8	968.7	933.4	906.0
45°	928.1	918.3	886.5	845.9	822.0
47.5°	848.5	838.8	803.4	753.1	731.8
50°	765.4	760.1	717.7	671.7	650.5
52.5°	689.4	683.2	639.9	594.0	574.5
55°	617.8	608.1	565.7	518.8	507.3
57.5°	546.2	535.6	495.8	456.1	448.1
60°	483.5	470.2	432.2	401.3	394.2
62.5°	424.3	409.2	377.4	353.5	350.0
65°	366.8	355.3	326.1	312.9	319.1
67.5°	317.3	305.8	284.6	279.3	277.5
70°	274.0	263.4	245.7	247.5	248.4
72.5°	234.2	228.0	214.8	219.2	222.7
75°	198.0	194.5	186.5	192.7	197.1
77.5°	165.3	162.6	159.1	164.4	171.5
80°	134.3	132.6	133.5	137.0	144.1
82.5°	103.4	99.9	102.5	109.6	114.0
85°	69.8	67.2	68.9	76.0	76.9
87.5°	32.7	32.7	31.8	37.1	37.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)