

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: P290740

Luminaire Tested: **14GR-LD5-40-F1-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290740
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-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3781.0 lumens
Efficiency: N/A
Efficacy: 109.9 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

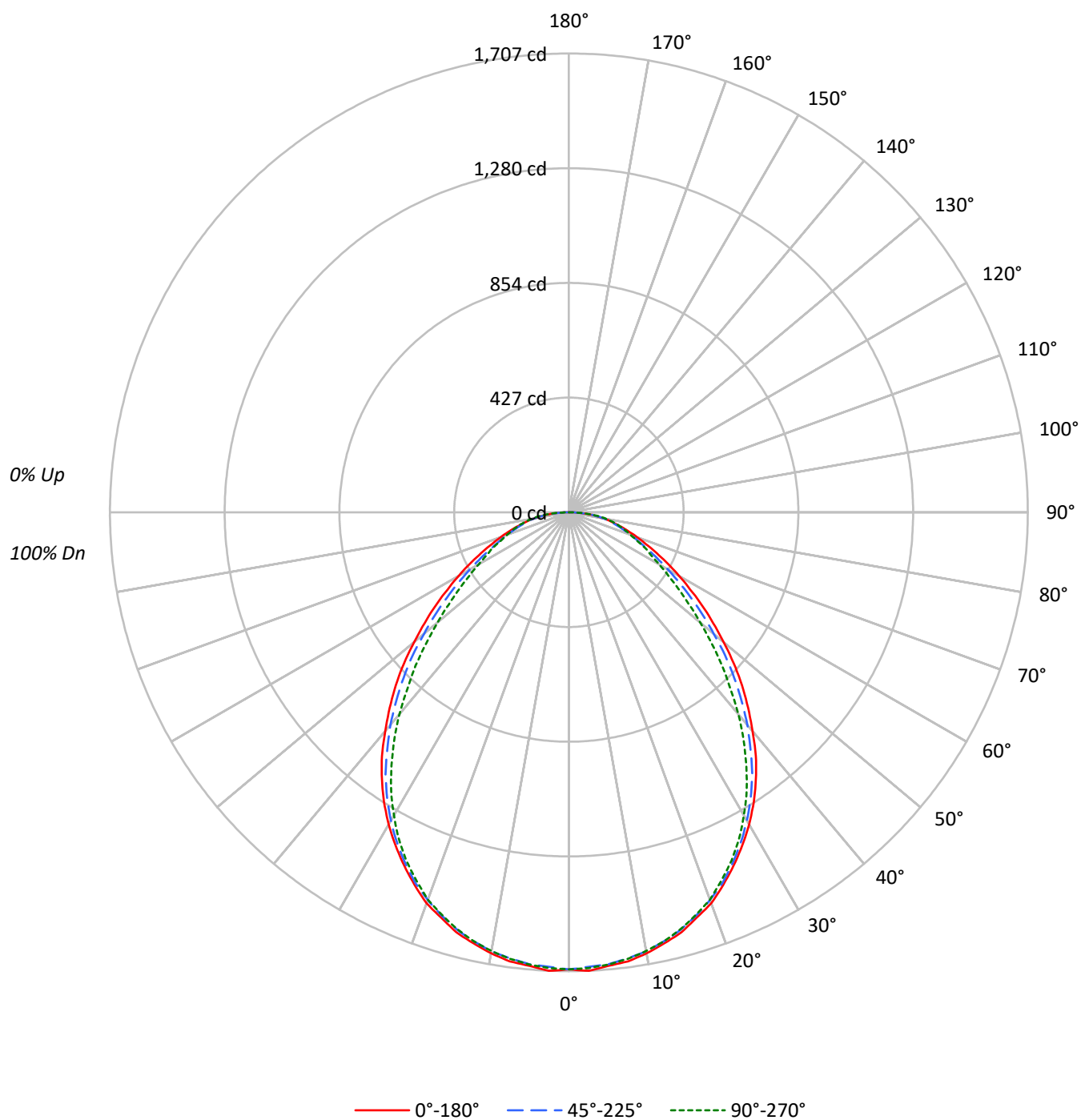
Input Watts (W): 34.41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4576	4576	4576
5°	4575	4558	4561
10°	4552	4530	4528
15°	4505	4479	4472
20°	4433	4395	4390
25°	4305	4277	4246
30°	4166	4115	4045
35°	3983	3906	3778
40°	3730	3626	3446
45°	3463	3308	3067
50°	3142	2946	2671
55°	2842	2602	2334
60°	2552	2281	2080
65°	2290	2036	1992
70°	2114	1895	1916
75°	2018	1902	2010
80°	2041	2029	2190
85°	2115	2087	2328



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.5	4.2
10°-20°	453.8	12.0
20°-30°	662.7	17.5
30°-40°	738.5	19.5
40°-50°	665.4	17.6
50°-60°	497.4	13.2
60°-70°	328.1	8.7
70°-80°	200.3	5.3
80°-90°	74.3	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°	1277.1	33.8
0°-40°	2015.5	53.3
0°-60°	3178.3	84.1
0°-90°	3781.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3781.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1700	1700	1700	1700	1700	
5°	1694	1692	1687	1696	1688	161
15°	1617	1611	1608	1617	1605	455
25°	1450	1445	1440	1443	1430	667
35°	1212	1202	1189	1168	1150	756
45°	910	900	869	829	806	700
55°	606	596	555	509	498	543
65°	360	348	320	307	313	361
75°	194	191	183	189	193	207
85°	68	66	68	74	75	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1700.4	1700.4	1700.4	1700.4	1700.4
2.5°	1707.3	1699.5	1692.6	1703.0	1696.9
5°	1693.5	1691.7	1687.4	1696.1	1688.3
7.5°	1684.8	1678.7	1673.5	1683.9	1675.3
10°	1665.7	1662.3	1657.9	1666.6	1657.1
12.5°	1642.3	1638.9	1634.5	1644.9	1634.5
15°	1617.2	1611.1	1607.7	1617.2	1605.1
17.5°	1580.8	1578.2	1573.0	1582.5	1570.4
20°	1547.9	1538.3	1534.9	1541.8	1533.1
22.5°	1500.2	1493.3	1492.4	1496.7	1482.0
25°	1449.9	1444.7	1440.4	1443.0	1430.0
27.5°	1397.1	1390.1	1384.9	1384.1	1370.2
30°	1340.7	1332.1	1324.3	1317.3	1301.7
32.5°	1279.2	1268.8	1258.4	1247.1	1230.7
35°	1212.5	1202.1	1189.1	1168.3	1150.1
37.5°	1142.3	1130.1	1109.3	1085.1	1066.9
40°	1061.7	1055.6	1032.2	1001.0	981.1
42.5°	986.3	979.3	949.9	915.2	888.3
45°	910.0	900.5	869.3	829.4	806.0
47.5°	832.0	822.5	787.8	738.4	717.6
50°	750.5	745.3	703.7	658.7	637.9
52.5°	676.0	669.9	627.5	582.4	563.3
55°	605.8	596.3	554.7	508.7	497.5
57.5°	535.6	525.2	486.2	447.2	439.4
60°	474.1	461.1	423.8	393.5	386.5
62.5°	416.0	401.3	370.1	346.7	343.2
65°	359.7	348.4	319.8	306.8	312.9
67.5°	311.1	299.9	279.1	273.9	272.1
70°	268.7	258.3	240.9	242.7	243.5
72.5°	229.7	223.6	210.6	214.9	218.4
75°	194.1	190.7	182.9	188.9	193.3
77.5°	162.1	159.5	156.0	161.2	168.1
80°	131.7	130.0	130.9	134.3	141.3
82.5°	101.4	97.9	100.5	107.5	111.8
85°	68.5	65.9	67.6	74.5	75.4
87.5°	32.1	32.1	31.2	36.4	36.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)