

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: P290729

Luminaire Tested: **14GR-LD5-36-F1-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290729
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-LD5-36-F1-UNV-L92765-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3228.0 lumens
Efficiency: N/A
Efficacy: 108.8 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

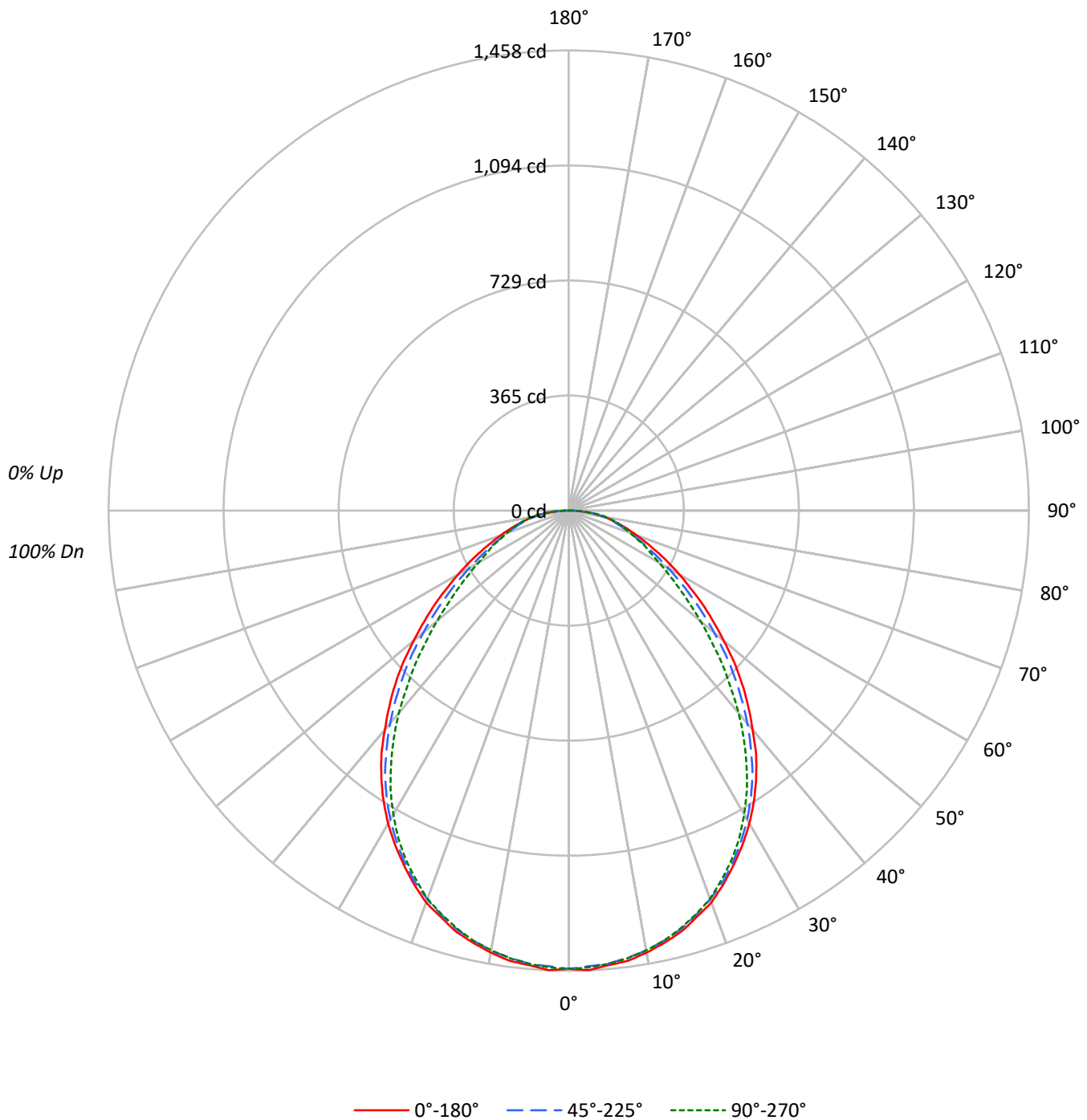
Input Watts (W): 29.667
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3906	3906	3906
5°	3905	3891	3894
10°	3886	3868	3866
15°	3847	3824	3818
20°	3784	3753	3748
25°	3676	3651	3625
30°	3557	3513	3453
35°	3400	3335	3226
40°	3184	3095	2942
45°	2957	2824	2619
50°	2683	2515	2280
55°	2426	2221	1993
60°	2178	1947	1776
65°	1955	1738	1701
70°	1805	1618	1636
75°	1723	1623	1716
80°	1743	1731	1869
85°	1806	1782	1988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.0	4.2
10°-20°	387.4	12.0
20°-30°	565.8	17.5
30°-40°	630.5	19.5
40°-50°	568.1	17.6
50°-60°	424.6	13.2
60°-70°	280.1	8.7
70°-80°	171.0	5.3
80°-90°	63.4	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°	1090.3	33.8
0°-40°	1720.8	53.3
0°-60°	2713.4	84.1
0°-90°	3228.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3228.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1452	1452	1452	1452	1452	
5°	1446	1444	1441	1448	1441	137
15°	1381	1376	1372	1381	1370	389
25°	1238	1233	1230	1232	1221	570
35°	1035	1026	1015	997	982	645
45°	777	769	742	708	688	598
55°	517	509	474	434	425	463
65°	307	297	273	262	267	308
75°	166	163	156	161	165	177
85°	58	56	58	64	64	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1451.7	1451.7	1451.7	1451.7	1451.7
2.5°	1457.6	1451.0	1445.1	1453.9	1448.8
5°	1445.8	1444.3	1440.6	1448.0	1441.4
7.5°	1438.4	1433.2	1428.8	1437.7	1430.3
10°	1422.1	1419.2	1415.5	1422.9	1414.7
12.5°	1402.1	1399.2	1395.5	1404.4	1395.5
15°	1380.7	1375.5	1372.5	1380.7	1370.3
17.5°	1349.6	1347.4	1342.9	1351.1	1340.7
20°	1321.5	1313.3	1310.4	1316.3	1308.9
22.5°	1280.8	1274.9	1274.1	1277.8	1265.3
25°	1237.9	1233.4	1229.7	1232.0	1220.9
27.5°	1192.7	1186.8	1182.4	1181.6	1169.8
30°	1144.6	1137.2	1130.6	1124.7	1111.4
32.5°	1092.1	1083.2	1074.4	1064.7	1050.7
35°	1035.1	1026.3	1015.2	997.4	981.9
37.5°	975.2	964.8	947.1	926.4	910.8
40°	906.4	901.2	881.2	854.6	837.6
42.5°	842.0	836.1	810.9	781.4	758.4
45°	776.9	768.8	742.1	708.1	688.1
47.5°	710.3	702.2	672.6	630.4	612.6
50°	640.8	636.3	600.8	562.3	544.6
52.5°	577.1	572.0	535.7	497.2	480.9
55°	517.2	509.1	473.5	434.3	424.7
57.5°	457.3	448.4	415.1	381.8	375.1
60°	404.7	393.6	361.8	335.9	330.0
62.5°	355.2	342.6	315.9	296.0	293.0
65°	307.1	297.4	273.0	261.9	267.1
67.5°	265.6	256.0	238.3	233.8	232.3
70°	229.4	220.5	205.7	207.2	207.9
72.5°	196.1	190.9	179.8	183.5	186.5
75°	165.7	162.8	156.1	161.3	165.0
77.5°	138.4	136.1	133.2	137.6	143.5
80°	112.5	111.0	111.7	114.7	120.6
82.5°	86.6	83.6	85.8	91.7	95.4
85°	58.5	56.2	57.7	63.6	64.4
87.5°	27.4	27.4	26.6	31.1	31.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)