

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: P290572

Luminaire Tested: **14GR-LD5-32-F1-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290572
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-LD5-32-F1-UNV-L83050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3090.0 lumens
Efficiency: N/A
Efficacy: 120.8 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

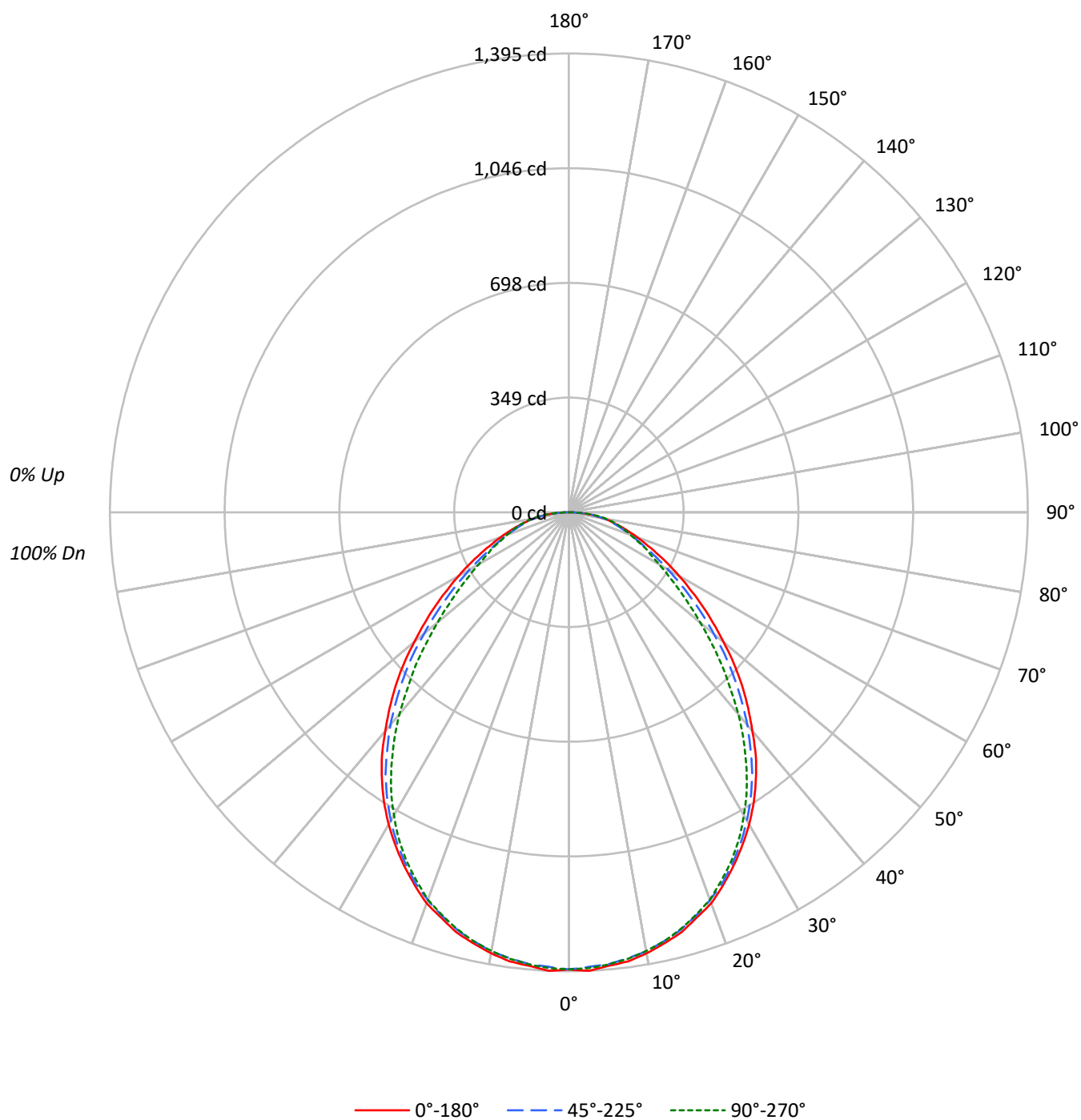
Input Watts (W): 25.575
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3740	3740	3740
5°	3739	3725	3727
10°	3720	3702	3700
15°	3682	3660	3654
20°	3623	3592	3588
25°	3518	3495	3470
30°	3405	3363	3306
35°	3255	3192	3088
40°	3048	2963	2817
45°	2830	2704	2507
50°	2568	2408	2182
55°	2323	2127	1908
60°	2085	1864	1700
65°	1871	1664	1628
70°	1728	1549	1566
75°	1650	1553	1642
80°	1669	1658	1790
85°	1729	1704	1902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.2	4.2
10°-20°	370.9	12.0
20°-30°	541.6	17.5
30°-40°	603.5	19.5
40°-50°	543.8	17.6
50°-60°	406.5	13.2
60°-70°	268.1	8.7
70°-80°	163.7	5.3
80°-90°	60.7	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°	1043.7	33.8
0°-40°	1647.2	53.3
0°-60°	2597.5	84.1
0°-90°	3090.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3090.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1390	1390	1390	1390	1390	
5°	1384	1383	1379	1386	1380	132
15°	1322	1317	1314	1322	1312	372
25°	1185	1181	1177	1179	1169	545
35°	991	982	972	955	940	618
45°	744	736	710	678	659	572
55°	495	487	453	416	407	443
65°	294	285	261	251	256	295
75°	159	156	149	154	158	169
85°	56	54	55	61	62	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1389.7	1389.7	1389.7	1389.7	1389.7
2.5°	1395.3	1388.9	1383.3	1391.8	1386.8
5°	1384.0	1382.6	1379.0	1386.1	1379.7
7.5°	1376.9	1371.9	1367.7	1376.2	1369.1
10°	1361.3	1358.5	1354.9	1362.0	1354.2
12.5°	1342.2	1339.4	1335.8	1344.3	1335.8
15°	1321.7	1316.7	1313.9	1321.7	1311.7
17.5°	1291.9	1289.8	1285.5	1293.3	1283.4
20°	1265.0	1257.2	1254.4	1260.0	1253.0
22.5°	1226.0	1220.4	1219.7	1223.2	1211.2
25°	1185.0	1180.7	1177.2	1179.3	1168.7
27.5°	1141.8	1136.1	1131.8	1131.1	1119.8
30°	1095.7	1088.6	1082.3	1076.6	1063.8
32.5°	1045.4	1036.9	1028.4	1019.2	1005.8
35°	990.9	982.4	971.8	954.8	939.9
37.5°	933.5	923.6	906.6	886.8	871.9
40°	867.6	862.7	843.6	818.1	801.8
42.5°	806.0	800.4	776.3	747.9	726.0
45°	743.7	735.9	710.4	677.8	658.7
47.5°	680.0	672.2	643.8	603.5	586.5
50°	613.4	609.1	575.1	538.3	521.3
52.5°	552.5	547.5	512.8	476.0	460.4
55°	495.1	487.3	453.3	415.8	406.6
57.5°	437.7	429.2	397.3	365.5	359.1
60°	387.4	376.8	346.4	321.6	315.9
62.5°	340.0	327.9	302.4	283.3	280.5
65°	293.9	284.7	261.4	250.7	255.7
67.5°	254.3	245.1	228.1	223.8	222.4
70°	219.6	211.1	196.9	198.3	199.0
72.5°	187.7	182.7	172.1	175.7	178.5
75°	158.7	155.8	149.4	154.4	157.9
77.5°	132.4	130.3	127.5	131.7	137.4
80°	107.7	106.2	107.0	109.8	115.5
82.5°	82.9	80.0	82.2	87.8	91.4
85°	56.0	53.8	55.2	60.9	61.6
87.5°	26.2	26.2	25.5	29.7	29.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)