

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: P290730

Luminaire Tested: **14GR-LD5-36-F1-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290730
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-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3312.0 lumens
Efficiency: N/A
Efficacy: 110.9 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

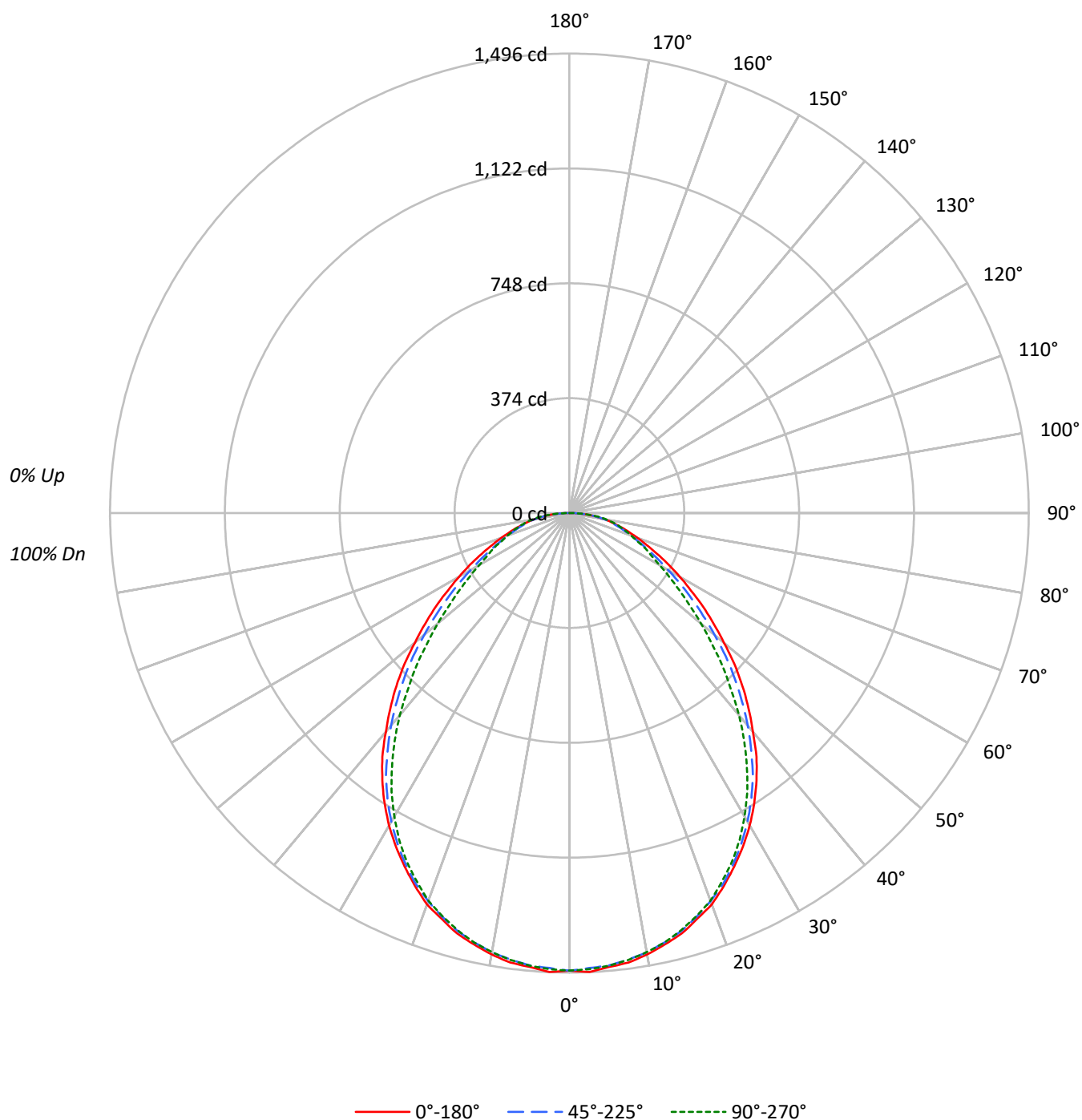
Input Watts (W): 29.853
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4008	4008	4008
5°	4007	3993	3995
10°	3987	3968	3966
15°	3947	3923	3917
20°	3883	3850	3846
25°	3771	3746	3719
30°	3649	3604	3543
35°	3489	3422	3309
40°	3267	3176	3019
45°	3033	2898	2687
50°	2752	2581	2339
55°	2490	2280	2045
60°	2235	1998	1822
65°	2006	1784	1745
70°	1851	1660	1678
75°	1769	1666	1760
80°	1788	1776	1917
85°	1853	1828	2038



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.6	4.2
10°-20°	397.5	12.0
20°-30°	580.5	17.5
30°-40°	646.9	19.5
40°-50°	582.8	17.6
50°-60°	435.7	13.2
60°-70°	287.4	8.7
70°-80°	175.5	5.3
80°-90°	65.1	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°	1118.7	33.8
0°-40°	1765.5	53.3
0°-60°	2784.1	84.1
0°-90°	3312.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3312.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1490	1490	1490	1490	1490	
5°	1483	1482	1478	1486	1479	141
15°	1417	1411	1408	1417	1406	399
25°	1270	1266	1262	1264	1253	585
35°	1062	1053	1042	1023	1007	662
45°	797	789	761	726	706	613
55°	531	522	486	446	436	475
65°	315	305	280	269	274	316
75°	170	167	160	166	169	182
85°	60	58	59	65	66	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1489.5	1489.5	1489.5	1489.5	1489.5
2.5°	1495.6	1488.7	1482.7	1491.8	1486.5
5°	1483.4	1481.9	1478.1	1485.7	1478.9
7.5°	1475.8	1470.5	1466.0	1475.1	1467.5
10°	1459.1	1456.1	1452.3	1459.9	1451.5
12.5°	1438.6	1435.6	1431.8	1440.9	1431.8
15°	1416.6	1411.3	1408.3	1416.6	1406.0
17.5°	1384.7	1382.4	1377.9	1386.2	1375.6
20°	1355.9	1347.5	1344.5	1350.6	1343.0
22.5°	1314.1	1308.0	1307.3	1311.1	1298.2
25°	1270.1	1265.5	1261.7	1264.0	1252.6
27.5°	1223.8	1217.7	1213.2	1212.4	1200.2
30°	1174.4	1166.8	1160.0	1153.9	1140.3
32.5°	1120.5	1111.4	1102.3	1092.4	1078.0
35°	1062.1	1053.0	1041.6	1023.4	1007.4
37.5°	1000.6	990.0	971.7	950.5	934.5
40°	930.0	924.7	904.2	876.8	859.4
42.5°	863.9	857.9	832.0	801.7	778.1
45°	797.1	788.8	761.4	726.5	706.0
47.5°	728.8	720.5	690.1	646.8	628.6
50°	657.4	652.9	616.4	577.0	558.7
52.5°	592.2	586.8	549.6	510.2	493.5
55°	530.7	522.3	485.9	445.6	435.8
57.5°	469.2	460.1	425.9	391.7	384.9
60°	415.3	403.9	371.2	344.7	338.6
62.5°	364.4	351.5	324.2	303.7	300.6
65°	315.1	305.2	280.1	268.7	274.1
67.5°	272.5	262.7	244.5	239.9	238.4
70°	235.3	226.2	211.0	212.6	213.3
72.5°	201.2	195.9	184.5	188.3	191.3
75°	170.1	167.0	160.2	165.5	169.3
77.5°	142.0	139.7	136.7	141.2	147.3
80°	115.4	113.9	114.6	117.7	123.7
82.5°	88.8	85.8	88.1	94.1	97.9
85°	60.0	57.7	59.2	65.3	66.0
87.5°	28.1	28.1	27.3	31.9	31.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)