

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: P290731

Luminaire Tested: **14GR-LD5-36-F1-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290731
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-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: 3379.0 lumens
Efficiency: N/A
Efficacy: 112.8 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

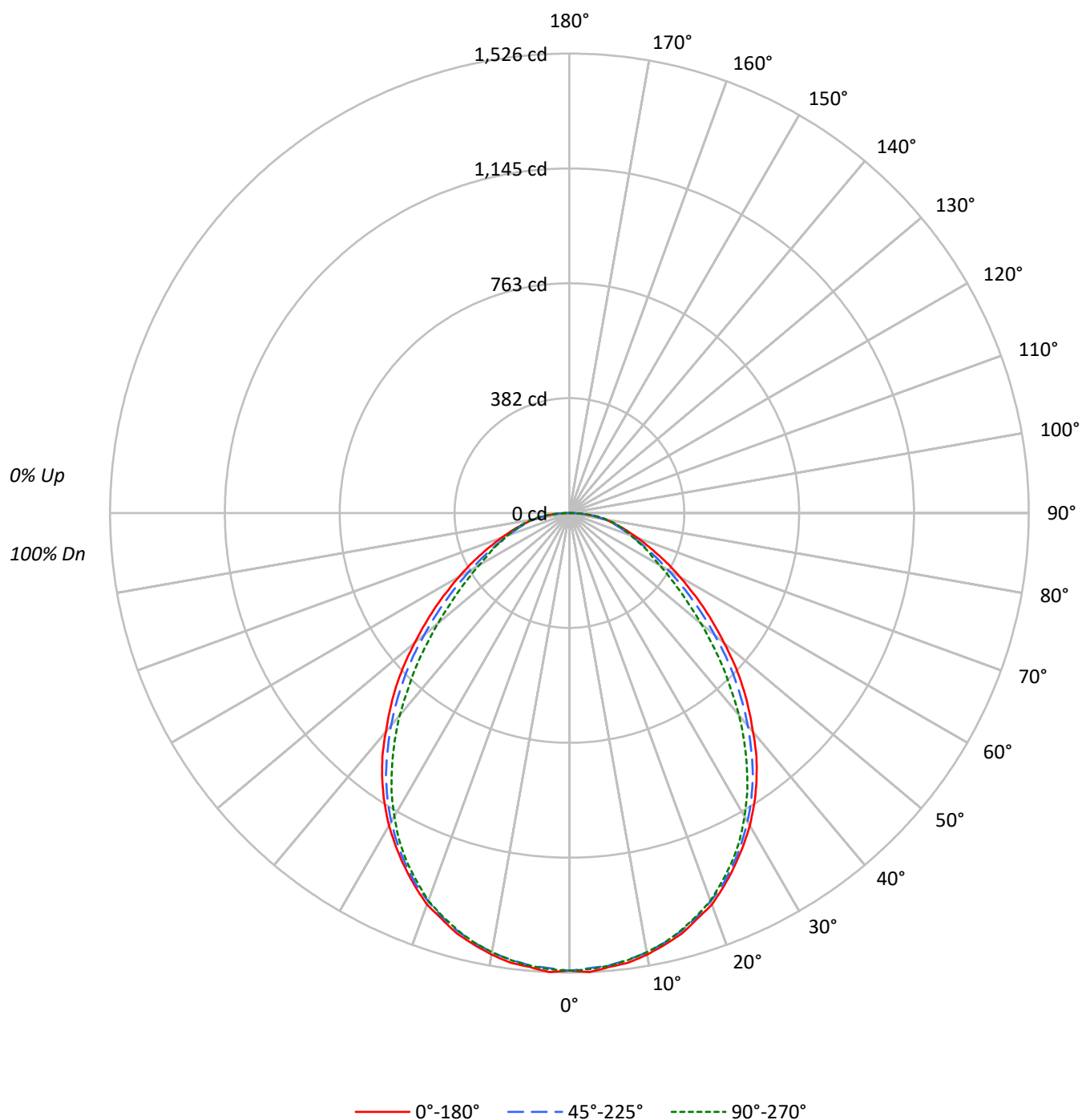
Input Watts (W): 29.946
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	105	101	98	107	103	99	96		99	96	93		95	92	90		91	89	87
2	101	93	87	81	98	91	85	80		88	83	78		84	80	77		81	78	75
3	92	83	75	69	90	81	74	68		78	72	67		75	70	66		73	69	65
4	85	74	66	59	83	73	65	59		70	64	58		68	62	57		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	61	52	46	71	60	52	46		58	51	45		56	50	45		55	49	45
7	68	55	47	41	66	54	47	41		53	46	41		52	45	40		50	44	40
8	64	51	43	37	62	50	42	37		49	42	37		47	41	36		46	41	36
9	60	47	39	34	58	46	39	33		45	38	33		44	38	33		43	37	33
10	56	43	36	31	55	43	35	31		42	35	30		41	35	30		40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4089	4089	4089
5°	4088	4073	4076
10°	4068	4049	4047
15°	4026	4003	3996
20°	3961	3928	3924
25°	3847	3822	3795
30°	3723	3677	3615
35°	3560	3491	3376
40°	3333	3241	3080
45°	3095	2957	2741
50°	2808	2633	2387
55°	2540	2326	2086
60°	2280	2038	1859
65°	2046	1820	1780
70°	1889	1694	1712
75°	1804	1699	1796
80°	1824	1813	1956
85°	1890	1865	2081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.5	4.2
10°-20°	405.6	12.0
20°-30°	592.3	17.5
30°-40°	660.0	19.5
40°-50°	594.6	17.6
50°-60°	444.5	13.2
60°-70°	293.2	8.7
70°-80°	179.0	5.3
80°-90°	66.4	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°	1141.3	33.8
0°-40°	1801.3	53.3
0°-60°	2840.4	84.1
0°-90°	3379.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3379.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1520	1520	1520	1520	1520	
5°	1513	1512	1508	1516	1509	144
15°	1445	1440	1437	1445	1434	407
25°	1296	1291	1287	1290	1278	596
35°	1084	1074	1063	1044	1028	676
45°	813	805	777	741	720	626
55°	541	533	496	455	445	485
65°	321	311	286	274	280	322
75°	174	170	163	169	173	185
85°	61	59	60	67	67	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1519.6	1519.6	1519.6	1519.6	1519.6
2.5°	1525.8	1518.8	1512.7	1521.9	1516.5
5°	1513.4	1511.9	1508.0	1515.7	1508.8
7.5°	1505.7	1500.3	1495.6	1504.9	1497.2
10°	1488.6	1485.5	1481.7	1489.4	1480.9
12.5°	1467.7	1464.6	1460.8	1470.1	1460.8
15°	1445.3	1439.8	1436.7	1445.3	1434.4
17.5°	1412.7	1410.4	1405.8	1414.3	1403.4
20°	1383.3	1374.8	1371.7	1377.9	1370.1
22.5°	1340.7	1334.5	1333.7	1337.6	1324.4
25°	1295.8	1291.1	1287.3	1289.6	1278.0
27.5°	1248.5	1242.3	1237.7	1236.9	1224.5
30°	1198.2	1190.4	1183.5	1177.3	1163.3
32.5°	1143.2	1133.9	1124.6	1114.5	1099.8
35°	1083.6	1074.3	1062.7	1044.1	1027.8
37.5°	1020.8	1010.0	991.4	969.7	953.4
40°	948.8	943.4	922.5	894.6	876.8
42.5°	881.4	875.2	848.9	817.9	793.9
45°	813.3	804.7	776.9	741.2	720.3
47.5°	743.5	735.0	704.0	659.9	641.3
50°	670.7	666.1	628.9	588.6	570.1
52.5°	604.1	598.7	560.8	520.5	503.4
55°	541.4	532.9	495.7	454.6	444.6
57.5°	478.7	469.4	434.5	399.7	392.7
60°	423.7	412.0	378.7	351.6	345.4
62.5°	371.8	358.6	330.7	309.8	306.7
65°	321.4	311.4	285.8	274.2	279.6
67.5°	278.1	268.0	249.4	244.8	243.2
70°	240.1	230.8	215.3	216.9	217.6
72.5°	205.2	199.8	188.2	192.1	195.2
75°	173.5	170.4	163.4	168.8	172.7
77.5°	144.8	142.5	139.4	144.1	150.3
80°	117.7	116.2	117.0	120.1	126.2
82.5°	90.6	87.5	89.8	96.0	99.9
85°	61.2	58.9	60.4	66.6	67.4
87.5°	28.7	28.7	27.9	32.5	32.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)