

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: P290735

Luminaire Tested: **14GR-LD5-40-F1-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290735
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-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3205.0 lumens
Efficiency: N/A
Efficacy: 95.5 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

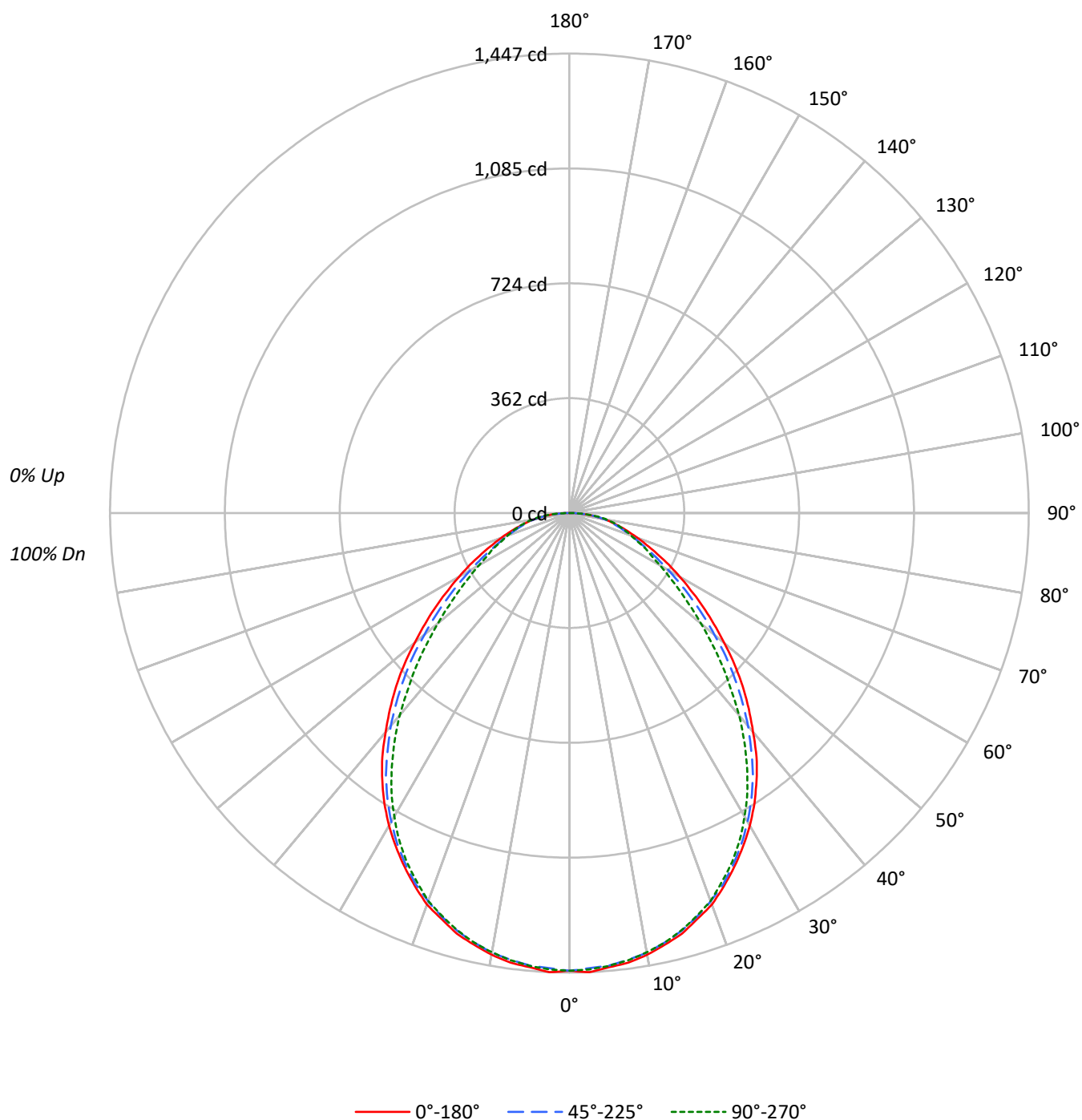
Input Watts (W): 33.573
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3879	3879	3879
5°	3878	3864	3866
10°	3858	3840	3838
15°	3819	3797	3791
20°	3757	3726	3722
25°	3649	3625	3599
30°	3531	3488	3429
35°	3376	3311	3203
40°	3161	3074	2921
45°	2936	2804	2600
50°	2663	2497	2264
55°	2409	2206	1978
60°	2162	1933	1764
65°	1941	1726	1689
70°	1792	1607	1624
75°	1711	1612	1703
80°	1731	1719	1855
85°	1791	1769	1973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.1	4.2
10°-20°	384.7	12.0
20°-30°	561.8	17.5
30°-40°	626.0	19.5
40°-50°	564.0	17.6
50°-60°	421.6	13.2
60°-70°	278.1	8.7
70°-80°	169.8	5.3
80°-90°	63.0	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°	1082.5	33.8
0°-40°	1708.5	53.3
0°-60°	2694.1	84.1
0°-90°	3205.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3205.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1441	1441	1441	1441	1441	
5°	1436	1434	1430	1438	1431	136
15°	1371	1366	1363	1371	1361	386
25°	1229	1225	1221	1223	1212	566
35°	1028	1019	1008	990	975	641
45°	771	763	737	703	683	594
55°	514	505	470	431	422	460
65°	305	295	271	260	265	306
75°	165	162	155	160	164	176
85°	58	56	57	63	64	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1441.4	1441.4	1441.4	1441.4	1441.4
2.5°	1447.2	1440.6	1434.8	1443.6	1438.4
5°	1435.5	1434.0	1430.3	1437.7	1431.1
7.5°	1428.1	1423.0	1418.6	1427.4	1420.1
10°	1412.0	1409.0	1405.4	1412.7	1404.6
12.5°	1392.1	1389.2	1385.5	1394.4	1385.5
15°	1370.8	1365.7	1362.8	1370.8	1360.6
17.5°	1340.0	1337.8	1333.4	1341.5	1331.2
20°	1312.1	1304.0	1301.1	1306.9	1299.6
22.5°	1271.7	1265.8	1265.1	1268.7	1256.2
25°	1229.1	1224.6	1221.0	1223.2	1212.2
27.5°	1184.2	1178.4	1174.0	1173.2	1161.5
30°	1136.5	1129.1	1122.5	1116.7	1103.4
32.5°	1084.3	1075.5	1066.7	1057.2	1043.2
35°	1027.8	1018.9	1007.9	990.3	974.9
37.5°	968.3	958.0	940.3	919.8	904.3
40°	899.9	894.8	875.0	848.5	831.6
42.5°	836.0	830.1	805.2	775.8	753.0
45°	771.4	763.3	736.8	703.1	683.2
47.5°	705.3	697.2	667.8	625.9	608.3
50°	636.2	631.8	596.5	558.3	540.7
52.5°	573.0	567.9	531.9	493.7	477.5
55°	513.5	505.4	470.2	431.2	421.7
57.5°	454.0	445.2	412.1	379.1	372.5
60°	401.8	390.8	359.2	333.5	327.7
62.5°	352.6	340.1	313.7	293.9	290.9
65°	304.9	295.3	271.1	260.1	265.2
67.5°	263.7	254.2	236.6	232.1	230.7
70°	227.7	218.9	204.2	205.7	206.4
72.5°	194.7	189.5	178.5	182.2	185.1
75°	164.6	161.6	155.0	160.2	163.8
77.5°	137.4	135.2	132.2	136.6	142.5
80°	111.7	110.2	110.9	113.9	119.7
82.5°	86.0	83.0	85.2	91.1	94.8
85°	58.0	55.8	57.3	63.2	63.9
87.5°	27.2	27.2	26.4	30.9	30.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)