

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: P290619

Luminaire Tested: **14GR-LD5-32-F1-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290619
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-L82765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3001.0 lumens
Efficiency: N/A
Efficacy: 116.9 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

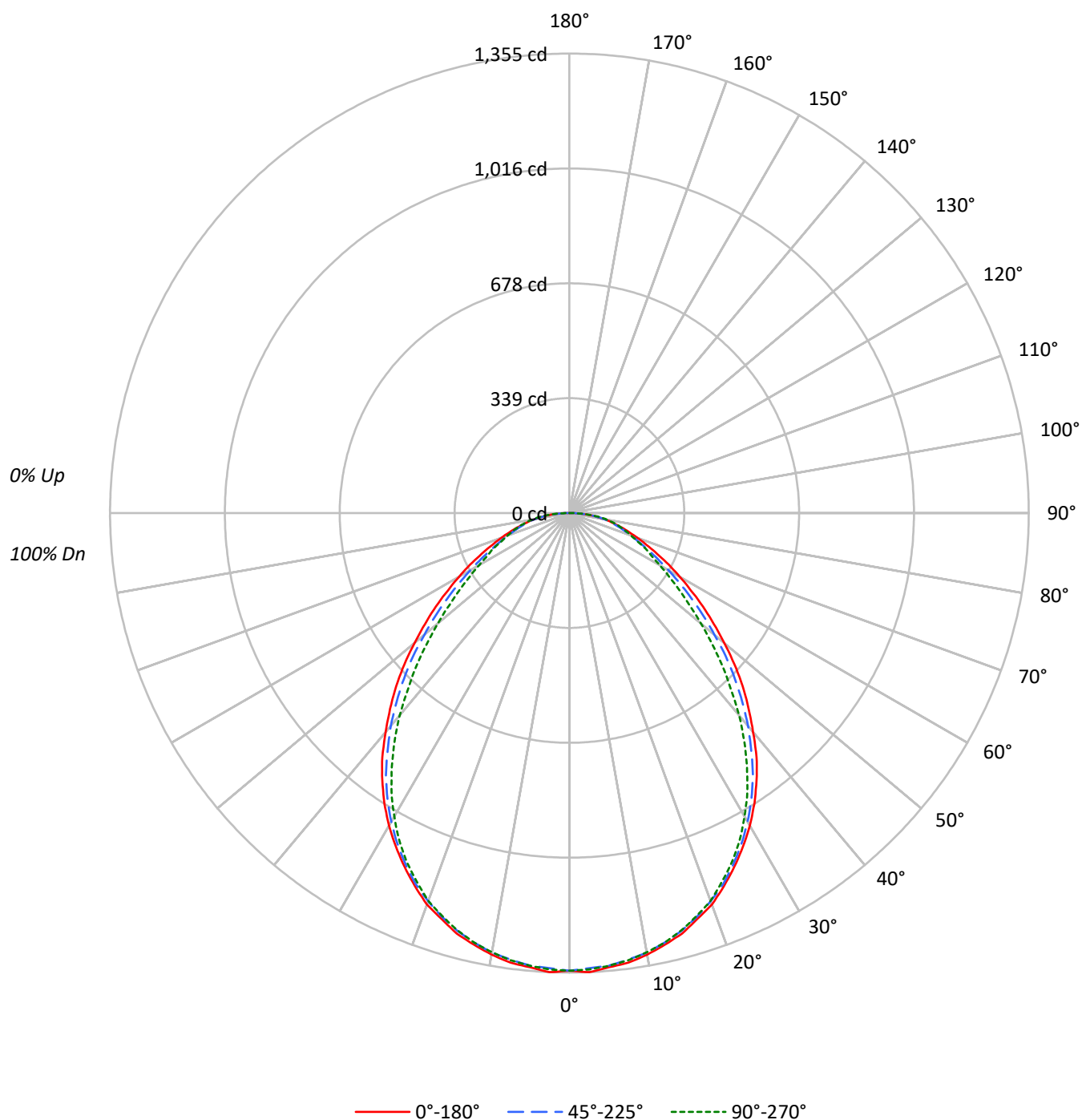
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3632	3632	3632
5°	3631	3618	3620
10°	3613	3596	3594
15°	3576	3555	3549
20°	3518	3489	3485
25°	3417	3395	3370
30°	3307	3266	3210
35°	3161	3100	2999
40°	2960	2878	2735
45°	2749	2625	2434
50°	2494	2339	2120
55°	2256	2065	1852
60°	2025	1810	1651
65°	1818	1616	1581
70°	1677	1504	1521
75°	1602	1509	1595
80°	1621	1610	1737
85°	1677	1658	1846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	4.2
10°-20°	360.2	12.0
20°-30°	526.0	17.5
30°-40°	586.1	19.5
40°-50°	528.1	17.6
50°-60°	394.8	13.2
60°-70°	260.4	8.7
70°-80°	159.0	5.3
80°-90°	59.0	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°	1013.6	33.8
0°-40°	1599.8	53.3
0°-60°	2522.6	84.1
0°-90°	3001.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3001.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1350	1350	1350	1350	1350	
5°	1344	1343	1339	1346	1340	128
15°	1284	1279	1276	1284	1274	361
25°	1151	1147	1143	1145	1135	530
35°	962	954	944	927	913	600
45°	722	715	690	658	640	556
55°	481	473	440	404	395	431
65°	286	276	254	244	248	286
75°	154	151	145	150	153	165
85°	54	52	54	59	60	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1349.6	1349.6	1349.6	1349.6	1349.6
2.5°	1355.1	1348.9	1343.4	1351.7	1346.9
5°	1344.1	1342.7	1339.3	1346.2	1340.0
7.5°	1337.2	1332.4	1328.3	1336.6	1329.7
10°	1322.1	1319.4	1315.9	1322.8	1315.2
12.5°	1303.5	1300.8	1297.3	1305.6	1297.3
15°	1283.6	1278.8	1276.0	1283.6	1274.0
17.5°	1254.7	1252.6	1248.5	1256.1	1246.4
20°	1228.6	1221.0	1218.2	1223.7	1216.9
22.5°	1190.7	1185.2	1184.5	1188.0	1176.3
25°	1150.8	1146.7	1143.3	1145.3	1135.0
27.5°	1108.9	1103.4	1099.2	1098.5	1087.5
30°	1064.2	1057.3	1051.1	1045.6	1033.2
32.5°	1015.3	1007.1	998.8	989.9	976.8
35°	962.3	954.1	943.8	927.3	912.8
37.5°	906.6	897.0	880.5	861.2	846.8
40°	842.7	837.8	819.3	794.5	778.7
42.5°	782.8	777.3	753.9	726.4	705.1
45°	722.3	714.7	689.9	658.3	639.7
47.5°	660.4	652.8	625.3	586.1	569.6
50°	595.7	591.6	558.6	522.8	506.3
52.5°	536.5	531.7	498.0	462.3	447.1
55°	480.8	473.3	440.2	403.8	394.8
57.5°	425.1	416.9	385.9	354.9	348.8
60°	376.3	366.0	336.4	312.3	306.8
62.5°	330.2	318.5	293.7	275.2	272.4
65°	285.5	276.5	253.8	243.5	248.3
67.5°	246.9	238.0	221.5	217.4	216.0
70°	213.2	205.0	191.2	192.6	193.3
72.5°	182.3	177.5	167.2	170.6	173.3
75°	154.1	151.3	145.1	150.0	153.4
77.5°	128.6	126.6	123.8	127.9	133.4
80°	104.6	103.2	103.9	106.6	112.1
82.5°	80.5	77.7	79.8	85.3	88.7
85°	54.3	52.3	53.7	59.2	59.8
87.5°	25.5	25.5	24.8	28.9	28.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)