

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: P291912

Luminaire Tested: **22GR-LD5-40-F1-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-40-F1-UNV-L92765-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3323.0 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

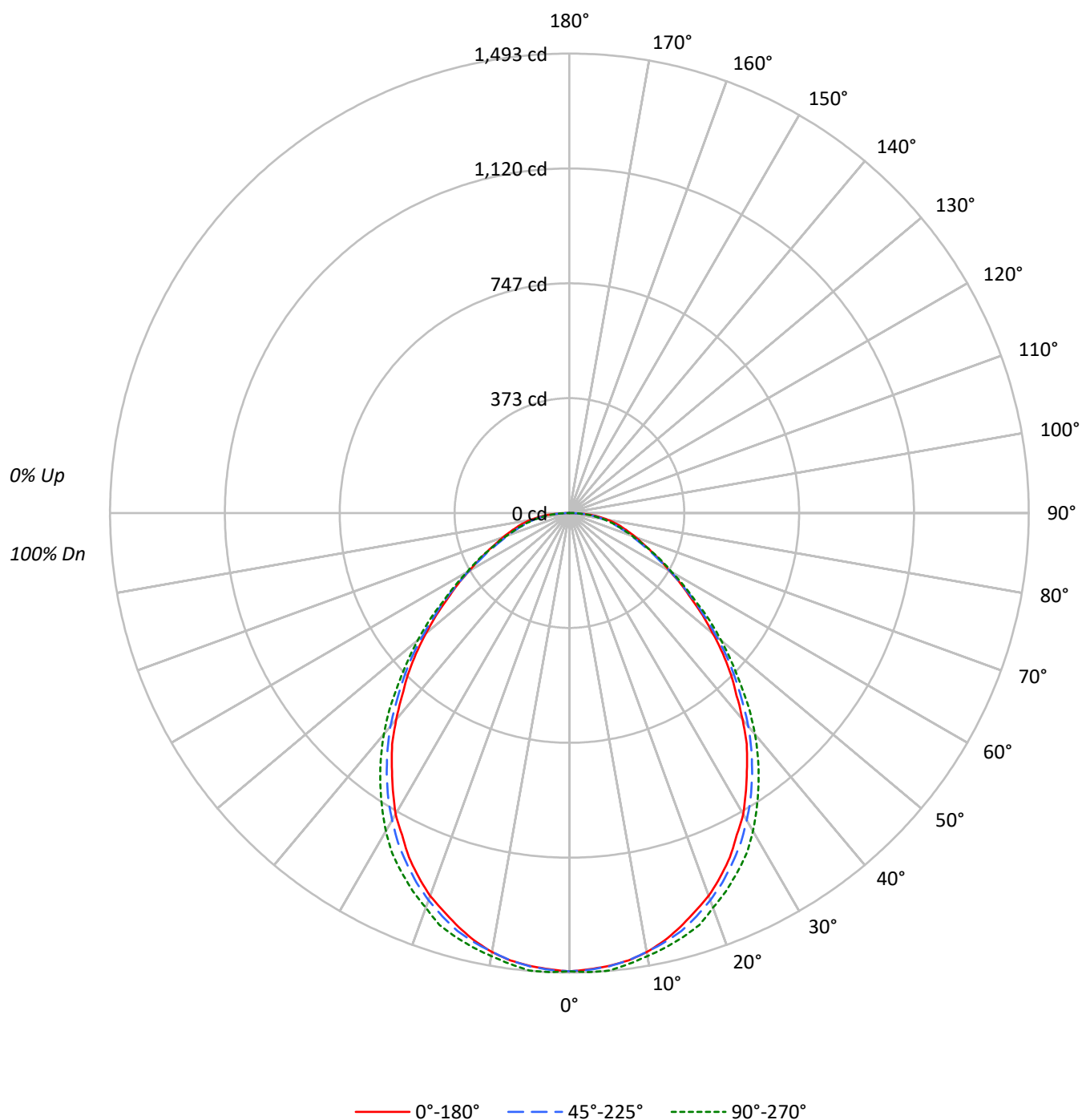
Input Watts (W): 32.085
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	87	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	63	58		68	62	57		66
5	79	67	58	52	77	66	58	52	63	56	51		62	55	51		60
6	73	60	52	46	71	59	51	46	58	51	45		56	50	45		55
7	68	55	47	41	66	54	46	41	53	46	41		51	45	40		50
8	63	51	42	37	62	50	42	37	49	42	37		47	41	36		46
9	59	47	39	33	58	46	39	33	45	38	33		44	38	33		43
10	56	43	36	31	55	43	35	30	42	35	30		41	35	30		40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4007	4007	4007
5°	3989	3994	4031
10°	3959	3956	3994
15°	3879	3917	3974
20°	3790	3834	3908
25°	3665	3723	3828
30°	3510	3581	3707
35°	3305	3400	3520
40°	3075	3180	3295
45°	2823	2905	2995
50°	2547	2611	2694
55°	2259	2313	2353
60°	2025	2029	2070
65°	1866	1803	1866
70°	1802	1670	1718
75°	1833	1634	1667
80°	1976	1715	1715
85°	2192	1815	1791



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.5	4.2
10°-20°	396.2	11.9
20°-30°	578.2	17.4
30°-40°	647.4	19.5
40°-50°	589.2	17.7
50°-60°	443.5	13.3
60°-70°	289.4	8.7
70°-80°	173.6	5.2
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°	1114.9	33.6
0°-40°	1762.3	53.0
0°-60°	2795.0	84.1
0°-90°	3323.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3323.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1489	1489	1489	1489	1489	
5°	1477	1475	1478	1484	1492	140
15°	1392	1394	1406	1417	1426	392
25°	1234	1238	1254	1277	1289	567
35°	1006	1015	1035	1059	1072	629
45°	742	750	763	779	787	571
55°	482	488	493	500	502	435
65°	293	290	283	288	293	293
75°	176	170	157	158	160	187
85°	71	69	59	56	58	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1489.1	1489.1	1489.1	1489.1	1489.1
2.5°	1483.8	1483.0	1485.3	1489.1	1492.9
5°	1476.9	1474.6	1478.4	1483.8	1492.2
7.5°	1466.2	1466.2	1466.2	1476.1	1477.7
10°	1448.7	1450.2	1447.9	1457.8	1461.6
12.5°	1423.5	1424.2	1428.8	1438.7	1445.6
15°	1392.2	1393.7	1405.9	1417.4	1426.5
17.5°	1357.1	1362.4	1373.9	1392.2	1403.6
20°	1323.5	1329.6	1338.7	1358.6	1364.7
22.5°	1280.7	1287.6	1299.1	1316.6	1329.6
25°	1234.2	1238.0	1254.0	1276.9	1289.1
27.5°	1178.5	1186.9	1206.7	1230.4	1247.2
30°	1129.6	1134.2	1152.5	1180.0	1193.0
32.5°	1067.8	1081.5	1096.8	1121.2	1133.4
35°	1006.0	1015.1	1035.0	1059.4	1071.6
37.5°	946.4	951.8	971.6	992.2	1007.5
40°	875.5	885.4	905.2	927.4	938.0
42.5°	804.5	819.0	831.9	854.1	865.5
45°	741.9	749.5	763.3	779.3	786.9
47.5°	676.2	680.1	696.1	706.0	714.4
50°	608.3	612.9	623.6	633.5	643.4
52.5°	545.7	549.5	556.4	565.6	575.5
55°	481.6	488.5	493.1	499.9	501.5
57.5°	429.7	428.9	432.0	437.3	442.7
60°	376.3	377.8	377.0	382.4	384.7
62.5°	332.0	331.3	326.7	334.3	340.4
65°	293.1	290.0	283.2	287.7	293.1
67.5°	257.2	255.7	244.2	248.1	252.6
70°	229.0	223.6	212.2	214.5	218.3
72.5°	201.5	195.4	183.9	184.7	187.0
75°	176.3	170.2	157.2	158.0	160.3
77.5°	152.7	145.0	133.6	132.0	133.6
80°	127.5	120.6	110.7	106.1	110.7
82.5°	101.5	97.7	86.2	81.7	83.2
85°	71.0	68.7	58.8	55.7	58.0
87.5°	32.8	35.1	29.8	27.5	28.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)