

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: P291900

Luminaire Tested: **22GR-LD5-32-F1-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291900
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-LD5-32-F1-UNV-L92765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3038.0 lumens
Efficiency: N/A
Efficacy: 120.1 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

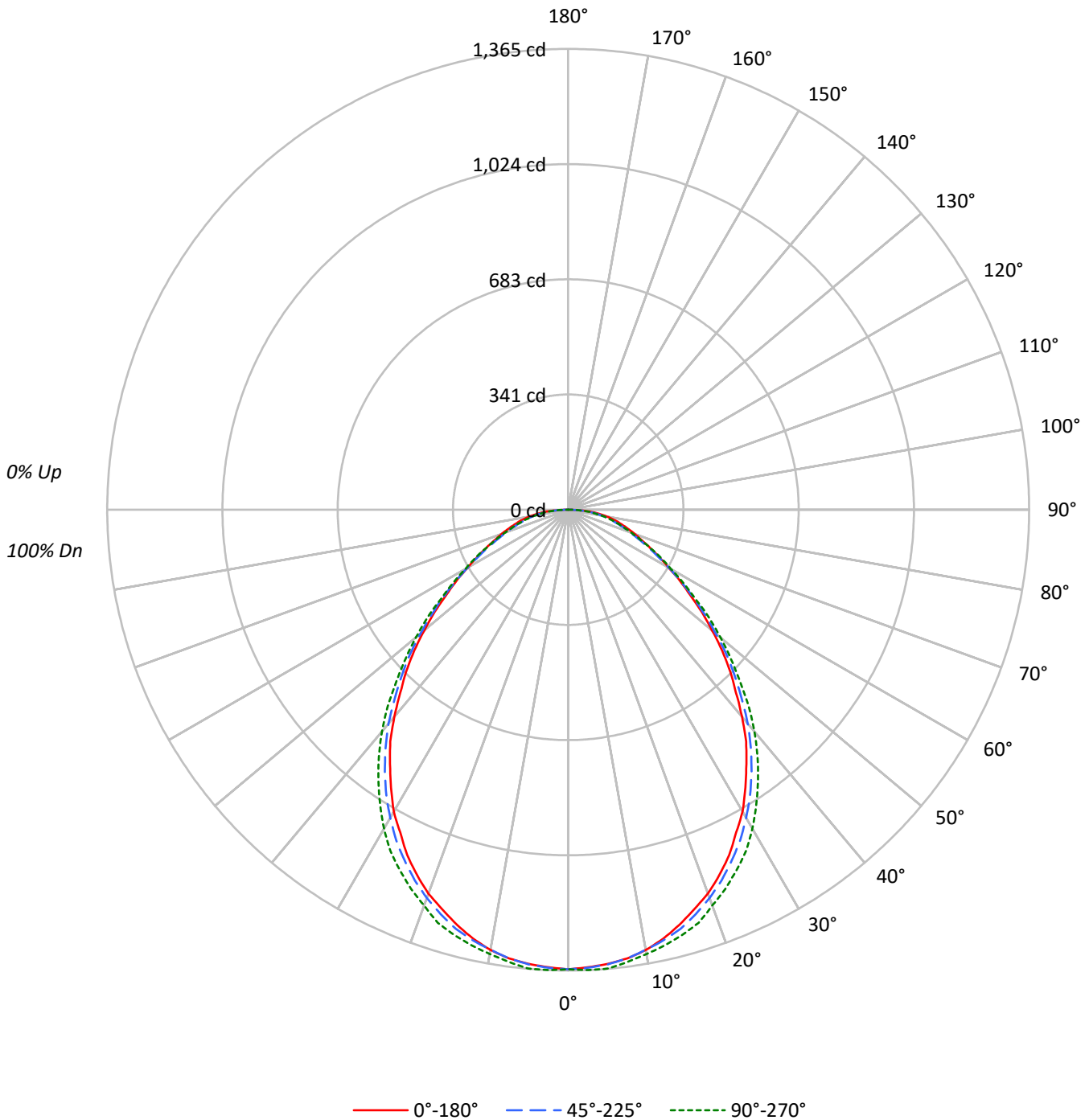
Input Watts (W): 25.296
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38					38			
8	63	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34					34			
9	59	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	30	42	35	30	41	35	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3663	3663	3663
5°	3647	3651	3685
10°	3619	3617	3651
15°	3546	3581	3633
20°	3465	3505	3573
25°	3350	3404	3499
30°	3209	3274	3389
35°	3021	3108	3218
40°	2812	2907	3013
45°	2581	2656	2738
50°	2328	2387	2462
55°	2066	2115	2151
60°	1851	1855	1893
65°	1706	1649	1706
70°	1647	1526	1570
75°	1676	1494	1523
80°	1805	1568	1568
85°	2004	1658	1636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	4.2
10°-20°	362.2	11.9
20°-30°	528.7	17.4
30°-40°	591.9	19.5
40°-50°	538.7	17.7
50°-60°	405.4	13.3
60°-70°	264.6	8.7
70°-80°	158.7	5.2
80°-90°	59.5	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°	1019.3	33.6
0°-40°	1611.2	53.0
0°-60°	2555.2	84.1
0°-90°	3038.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3038.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1361	1361	1361	1361	1361	
5°	1350	1348	1352	1356	1364	128
15°	1273	1274	1285	1296	1304	358
25°	1128	1132	1146	1167	1179	518
35°	920	928	946	968	980	575
45°	678	685	698	712	719	522
55°	440	447	451	457	458	398
65°	268	265	259	263	268	268
75°	161	156	144	144	146	171
85°	65	63	54	51	53	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1361.4	1361.4	1361.4	1361.4	1361.4
2.5°	1356.5	1355.8	1357.9	1361.4	1364.9
5°	1350.2	1348.1	1351.6	1356.5	1364.2
7.5°	1340.5	1340.5	1340.5	1349.5	1350.9
10°	1324.4	1325.8	1323.7	1332.8	1336.3
12.5°	1301.4	1302.1	1306.3	1315.3	1321.6
15°	1272.8	1274.2	1285.3	1295.8	1304.2
17.5°	1240.7	1245.6	1256.0	1272.8	1283.2
20°	1210.0	1215.6	1223.9	1242.1	1247.7
22.5°	1170.9	1177.2	1187.6	1203.7	1215.6
25°	1128.3	1131.8	1146.5	1167.4	1178.6
27.5°	1077.4	1085.1	1103.2	1124.8	1140.2
30°	1032.7	1036.9	1053.7	1078.8	1090.6
32.5°	976.2	988.8	1002.7	1025.1	1036.2
35°	919.7	928.1	946.2	968.5	979.7
37.5°	865.3	870.1	888.3	907.1	921.1
40°	800.4	809.4	827.6	847.8	857.6
42.5°	735.5	748.7	760.6	780.8	791.3
45°	678.3	685.2	697.8	712.4	719.4
47.5°	618.2	621.7	636.4	645.5	653.1
50°	556.1	560.3	570.1	579.2	588.2
52.5°	498.9	502.4	508.7	517.1	526.1
55°	440.3	446.6	450.8	457.1	458.4
57.5°	392.9	392.2	395.0	399.8	404.7
60°	344.0	345.4	344.7	349.6	351.7
62.5°	303.5	302.8	298.7	305.6	311.2
65°	268.0	265.2	258.9	263.1	268.0
67.5°	235.2	233.8	223.3	226.8	231.0
70°	209.3	204.5	194.0	196.1	199.6
72.5°	184.2	178.6	168.2	168.9	171.0
75°	161.2	155.6	143.7	144.4	146.5
77.5°	139.6	132.6	122.1	120.7	122.1
80°	116.5	110.3	101.2	97.0	101.2
82.5°	92.8	89.3	78.9	74.7	76.1
85°	64.9	62.8	53.7	50.9	53.0
87.5°	30.0	32.1	27.2	25.1	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)