

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: P292294

Luminaire Tested: **22GR-LD5-36-A-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292294  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-36-A-UNV-L92765-W2A1-U-2700K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2827.0 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

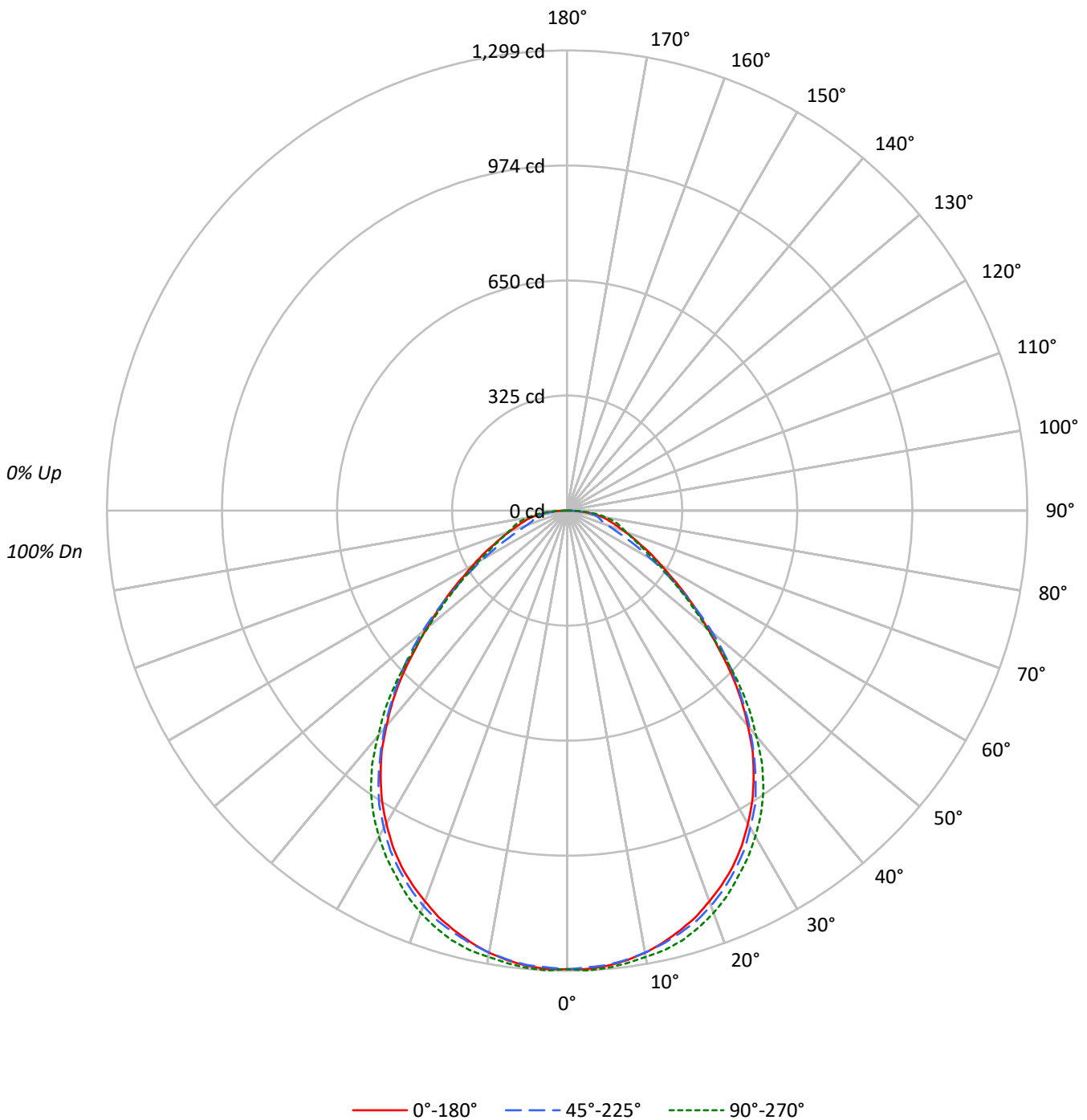
Input Watts (W): 27.993  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30					30			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3484	3484	3484
5°	3485	3479	3501
10°	3464	3462	3496
15°	3420	3438	3499
20°	3361	3400	3461
25°	3289	3326	3387
30°	3170	3214	3301
35°	3015	3049	3172
40°	2787	2817	2916
45°	2504	2549	2589
50°	2165	2242	2143
55°	1889	1840	1815
60°	1636	1473	1572
65°	1462	1156	1412
70°	1356	958	1393
75°	1355	1013	1546
80°	1499	1274	1743
85°	1565	1380	1970



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.5	4.3
10°-20°	348.9	12.3
20°-30°	516.1	18.3
30°-40°	582.4	20.6
40°-50°	513.4	18.2
50°-60°	352.2	12.5
60°-70°	207.8	7.4
70°-80°	129.7	4.6
80°-90°	54.1	1.9
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°	987.5	34.9
0°-40°	1569.9	55.5
0°-60°	2435.4	86.1
0°-90°	2827.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2827.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1295	1295	1295	1295	1295	
5°	1290	1287	1288	1293	1296	122
15°	1228	1229	1234	1249	1256	346
25°	1108	1112	1120	1135	1141	509
35°	918	926	928	951	966	572
45°	658	661	670	674	680	505
55°	403	393	392	379	387	361
65°	230	202	182	210	222	231
75°	130	117	97	136	149	140
85°	51	47	45	58	64	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1294.7	1294.7	1294.7	1294.7	1294.7
2.5°	1295.3	1292.0	1290.7	1296.0	1299.3
5°	1290.1	1287.4	1288.1	1292.7	1296.0
7.5°	1280.8	1278.9	1278.9	1285.5	1288.7
10°	1267.7	1267.0	1267.0	1274.9	1279.5
12.5°	1249.3	1249.9	1252.6	1263.1	1271.0
15°	1227.6	1228.9	1234.1	1249.3	1255.9
17.5°	1203.9	1203.9	1214.4	1226.2	1234.1
20°	1173.6	1175.6	1187.4	1200.6	1208.5
22.5°	1142.7	1146.0	1155.9	1171.0	1178.2
25°	1107.8	1111.8	1120.3	1134.8	1140.7
27.5°	1067.0	1072.3	1081.5	1092.0	1104.5
30°	1020.3	1028.2	1034.2	1048.6	1062.4
32.5°	973.0	980.2	986.8	1001.9	1017.7
35°	917.7	925.6	928.2	950.6	965.7
37.5°	861.1	864.4	865.7	888.1	904.6
40°	793.4	800.0	801.9	819.7	830.2
42.5°	728.2	730.9	734.8	748.0	760.5
45°	657.9	661.1	669.7	673.6	680.2
47.5°	584.2	594.0	603.9	591.4	592.1
50°	517.1	525.0	535.5	511.8	511.8
52.5°	457.2	461.2	461.8	442.1	446.0
55°	402.6	392.7	392.1	378.9	386.8
57.5°	348.0	334.8	330.2	326.3	335.5
60°	303.9	280.2	273.7	279.6	292.1
62.5°	267.7	237.5	225.0	240.1	251.3
65°	229.6	202.0	181.6	209.9	221.7
67.5°	200.0	173.7	147.4	187.5	196.0
70°	172.4	152.0	121.7	170.4	177.0
72.5°	150.0	134.2	105.3	153.9	161.8
75°	130.3	117.1	97.4	136.2	148.7
77.5°	114.5	100.0	90.8	117.8	132.9
80°	96.7	82.2	82.2	98.7	112.5
82.5°	76.3	64.5	66.4	80.3	90.1
85°	50.7	47.4	44.7	58.5	63.8
87.5°	25.7	26.3	23.7	30.3	30.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)