

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: P292201

Luminaire Tested: **22GR-LD5-36-A-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292201  
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-L82765-W2A1-U-5000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3714.0 lumens  
Efficiency: N/A  
Efficacy: 129.2 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

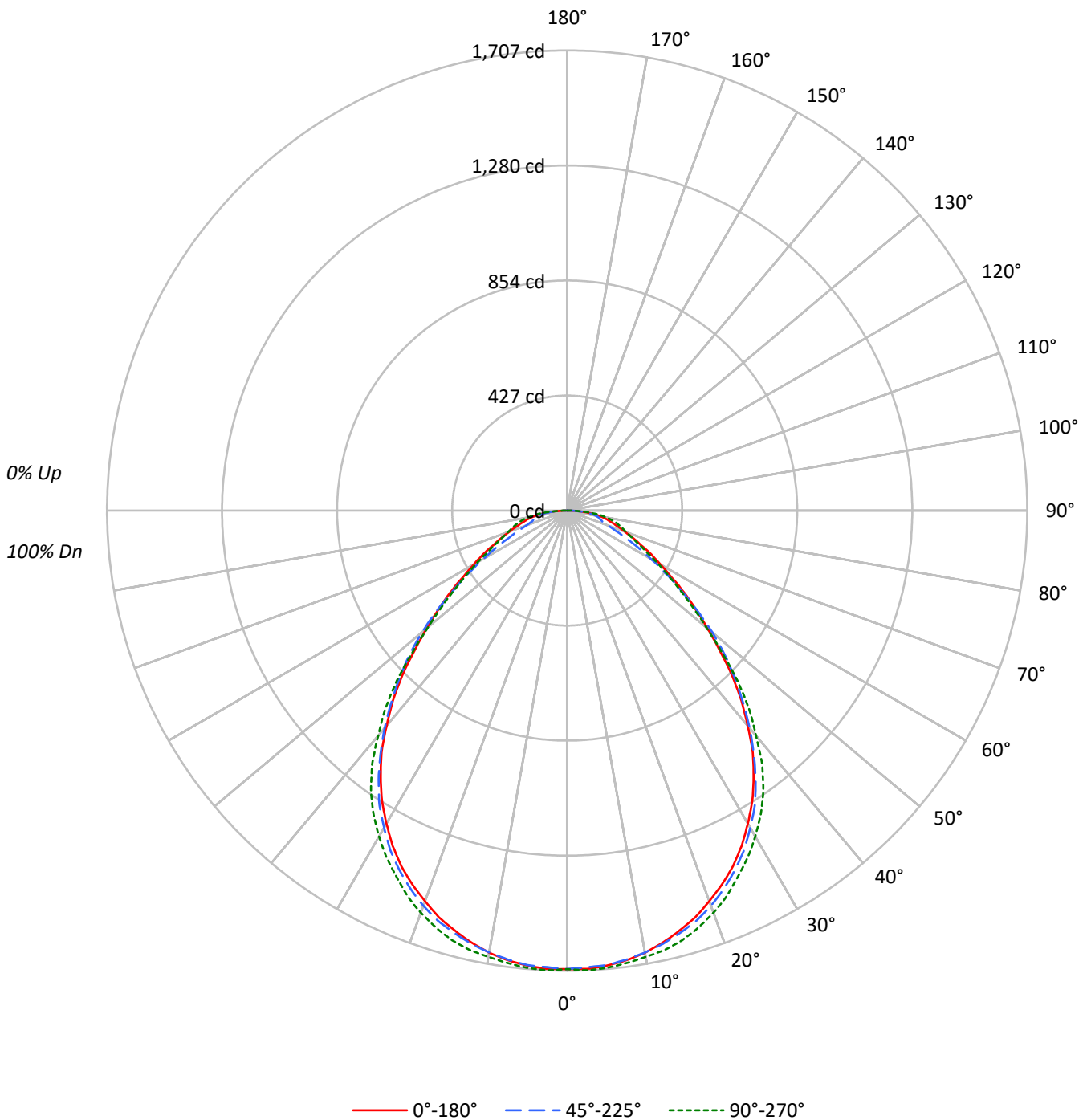
Input Watts (W): 28.737  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4577	4577	4577
5°	4578	4571	4599
10°	4551	4549	4593
15°	4493	4517	4596
20°	4416	4467	4547
25°	4321	4370	4450
30°	4165	4222	4337
35°	3961	4006	4168
40°	3661	3701	3831
45°	3289	3348	3401
50°	2844	2945	2815
55°	2481	2417	2384
60°	2149	1935	2065
65°	1920	1519	1855
70°	1781	1258	1829
75°	1779	1330	2031
80°	1968	1674	2290
85°	2053	1815	2587



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.0	4.3
10°-20°	458.4	12.3
20°-30°	678.0	18.3
30°-40°	765.1	20.6
40°-50°	674.4	18.2
50°-60°	462.7	12.5
60°-70°	273.0	7.4
70°-80°	170.4	4.6
80°-90°	71.0	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°	1297.4	34.9
0°-40°	2062.5	55.5
0°-60°	3199.6	86.1
0°-90°	3714.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3714.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1701	1701	1701	1701	1701	
5°	1695	1691	1692	1698	1703	161
15°	1613	1614	1621	1641	1650	455
25°	1455	1461	1472	1491	1499	668
35°	1206	1216	1220	1249	1269	751
45°	864	869	880	885	894	664
55°	529	516	515	498	508	474
65°	302	265	238	276	291	304
75°	171	154	128	179	195	184
85°	66	62	59	77	84	72
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1700.9	1700.9	1700.9	1700.9	1700.9
2.5°	1701.7	1697.4	1695.7	1702.6	1706.9
5°	1694.8	1691.4	1692.2	1698.3	1702.6
7.5°	1682.7	1680.1	1680.1	1688.8	1693.1
10°	1665.4	1664.6	1664.6	1674.9	1681.0
12.5°	1641.2	1642.1	1645.6	1659.4	1669.8
15°	1612.7	1614.5	1621.4	1641.2	1649.9
17.5°	1581.6	1581.6	1595.4	1611.0	1621.4
20°	1541.9	1544.4	1560.0	1577.3	1587.7
22.5°	1501.2	1505.6	1518.5	1538.4	1547.9
25°	1455.4	1460.6	1471.8	1490.9	1498.6
27.5°	1401.8	1408.8	1420.9	1434.7	1451.1
30°	1340.5	1350.8	1358.6	1377.6	1395.8
32.5°	1278.3	1287.8	1296.4	1316.3	1337.0
35°	1205.7	1216.0	1219.5	1248.9	1268.7
37.5°	1131.3	1135.6	1137.4	1166.8	1188.4
40°	1042.3	1050.9	1053.5	1076.9	1090.7
42.5°	956.7	960.2	965.4	982.7	999.1
45°	864.3	868.6	879.8	885.0	893.7
47.5°	767.5	780.4	793.4	777.0	777.8
50°	679.3	689.7	703.5	672.4	672.4
52.5°	600.7	605.9	606.7	580.8	586.0
55°	528.9	516.0	515.1	497.8	508.2
57.5°	457.2	439.9	433.9	428.7	440.8
60°	399.3	368.2	359.5	367.3	383.7
62.5°	351.8	312.0	295.6	315.5	330.2
65°	301.6	265.3	238.5	275.7	291.3
67.5°	262.7	228.2	193.6	246.3	257.6
70°	226.4	199.6	159.9	223.8	232.5
72.5°	197.1	176.3	138.3	202.2	212.6
75°	171.1	153.8	127.9	178.9	195.3
77.5°	150.4	131.4	119.3	154.7	174.6
80°	127.0	108.0	108.0	129.6	147.8
82.5°	100.3	84.7	87.3	105.4	118.4
85°	66.5	62.2	58.8	76.9	83.8
87.5°	33.7	34.6	31.1	39.8	40.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)