

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: P292197

Luminaire Tested: **22GR-LD5-36-A-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292197  
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-3000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3405.0 lumens  
Efficiency: N/A  
Efficacy: 122.0 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

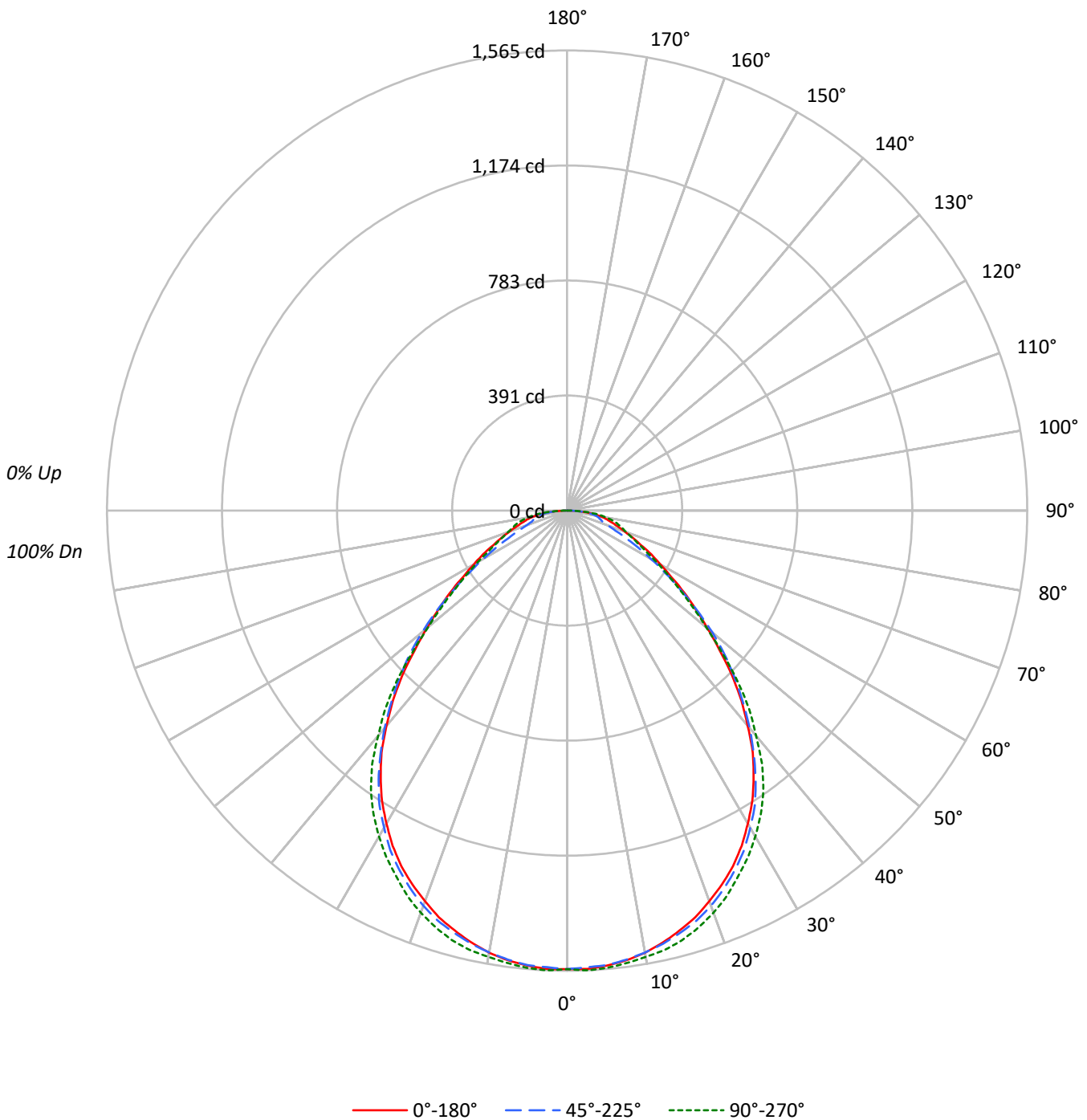
Input Watts (W): 27.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

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

	0°	45°	90°
0°	4196	4196	4196
5°	4197	4191	4217
10°	4172	4170	4211
15°	4119	4141	4214
20°	4048	4096	4168
25°	3962	4007	4080
30°	3819	3870	3976
35°	3631	3673	3821
40°	3357	3393	3513
45°	3016	3070	3118
50°	2607	2700	2581
55°	2275	2215	2186
60°	1970	1774	1893
65°	1761	1393	1700
70°	1633	1153	1677
75°	1631	1220	1862
80°	1805	1534	2100
85°	1883	1664	2374



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.6	4.3
10°-20°	420.3	12.3
20°-30°	621.6	18.3
30°-40°	701.4	20.6
40°-50°	618.3	18.2
50°-60°	424.2	12.5
60°-70°	250.3	7.4
70°-80°	156.2	4.6
80°-90°	65.1	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°	1189.4	34.9
0°-40°	1890.9	55.5
0°-60°	2933.4	86.1
0°-90°	3405.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3405.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1559	1559	1559	1559	1559	
5°	1554	1551	1551	1557	1561	147
15°	1478	1480	1486	1505	1513	417
25°	1334	1339	1349	1367	1374	613
35°	1105	1115	1118	1145	1163	689
45°	792	796	807	811	819	609
55°	485	473	472	456	466	435
65°	276	243	219	253	267	279
75°	157	141	117	164	179	168
85°	61	57	54	70	77	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1559.4	1559.4	1559.4	1559.4	1559.4
2.5°	1560.2	1556.2	1554.6	1561.0	1564.9
5°	1553.8	1550.7	1551.4	1557.0	1561.0
7.5°	1542.7	1540.4	1540.4	1548.3	1552.2
10°	1526.9	1526.1	1526.1	1535.6	1541.1
12.5°	1504.7	1505.5	1508.7	1521.3	1530.8
15°	1478.5	1480.1	1486.5	1504.7	1512.6
17.5°	1450.0	1450.0	1462.7	1477.0	1486.5
20°	1413.6	1415.9	1430.2	1446.1	1455.6
22.5°	1376.3	1380.3	1392.2	1410.4	1419.1
25°	1334.3	1339.1	1349.4	1366.8	1374.0
27.5°	1285.2	1291.5	1302.6	1315.3	1330.4
30°	1229.0	1238.5	1245.6	1263.0	1279.7
32.5°	1171.9	1180.6	1188.5	1206.8	1225.8
35°	1105.3	1114.9	1118.0	1145.0	1163.2
37.5°	1037.2	1041.2	1042.7	1069.7	1089.5
40°	955.6	963.5	965.9	987.3	1000.0
42.5°	877.1	880.3	885.1	900.9	916.0
45°	792.4	796.3	806.6	811.4	819.3
47.5°	703.6	715.5	727.4	712.3	713.1
50°	622.8	632.3	645.0	616.5	616.5
52.5°	550.7	555.4	556.2	532.5	537.2
55°	484.9	473.0	472.2	456.4	465.9
57.5°	419.2	403.3	397.8	393.0	404.1
60°	366.1	337.5	329.6	336.8	351.8
62.5°	322.5	286.0	271.0	289.2	302.7
65°	276.5	243.3	218.7	252.8	267.0
67.5°	240.9	209.2	177.5	225.8	236.1
70°	207.6	183.0	146.6	205.2	213.1
72.5°	180.7	161.6	126.8	185.4	194.9
75°	156.9	141.0	117.3	164.0	179.1
77.5°	137.9	120.4	109.3	141.8	160.1
80°	116.5	99.0	99.0	118.9	135.5
82.5°	91.9	77.7	80.0	96.7	108.6
85°	61.0	57.1	53.9	70.5	76.9
87.5°	30.9	31.7	28.5	36.4	37.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)