

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: P292497

Luminaire Tested: **22GR-LD5-36-A125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292497  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-36-A125-UNV-L92765-W2A1-U-5700K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3394.0 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

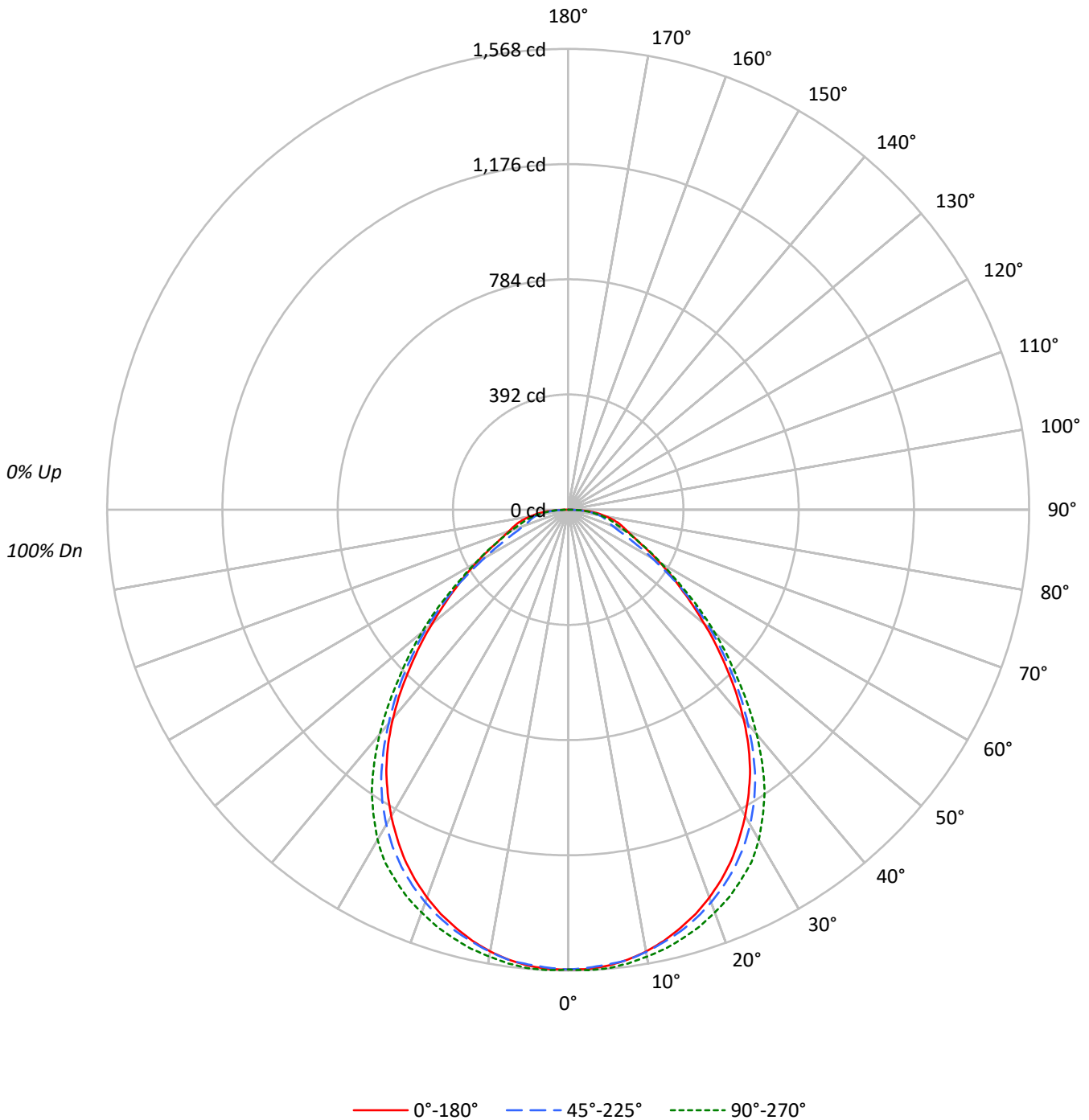
Input Watts (W): 28.923  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86					86			
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74					74			
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49					49			
6	74	61	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	52	46	41	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	34	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	29					29			

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

	0°	45°	90°
0°	4210	4210	4210
5°	4207	4196	4230
10°	4171	4176	4219
15°	4105	4133	4204
20°	4020	4072	4176
25°	3903	3983	4128
30°	3740	3846	4030
35°	3543	3642	3826
40°	3258	3339	3505
45°	2894	3000	3108
50°	2528	2644	2723
55°	2198	2228	2309
60°	1934	1772	1972
65°	1718	1416	1728
70°	1688	1257	1594
75°	1843	1382	1629
80°	2024	1643	1742
85°	2418	1905	1954



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.9	4.4
10°-20°	419.3	12.4
20°-30°	619.0	18.2
30°-40°	692.7	20.4
40°-50°	608.3	17.9
50°-60°	430.4	12.7
60°-70°	250.5	7.4
70°-80°	156.1	4.6
80°-90°	69.8	2.1
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°	1186.2	34.9
0°-40°	1878.8	55.4
0°-60°	2917.5	86.0
0°-90°	3394.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3394.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1564	1564	1564	1564	1564	
5°	1557	1553	1553	1561	1566	148
15°	1474	1477	1484	1500	1509	415
25°	1314	1320	1341	1373	1390	604
35°	1079	1083	1109	1142	1165	671
45°	760	769	788	807	817	588
55°	468	478	475	484	492	423
65°	270	248	222	242	271	274
75°	177	153	133	136	157	185
85°	78	82	62	60	63	80
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1564.5	1564.5	1564.5	1564.5	1564.5
2.5°	1564.5	1561.3	1559.7	1565.3	1568.4
5°	1557.3	1553.4	1553.4	1561.3	1566.0
7.5°	1544.7	1540.7	1545.5	1552.6	1557.3
10°	1526.5	1524.9	1528.1	1537.6	1543.9
12.5°	1502.7	1503.5	1506.7	1521.7	1529.6
15°	1473.5	1476.6	1483.7	1499.6	1509.1
17.5°	1441.8	1444.2	1455.3	1473.5	1486.9
20°	1403.8	1408.6	1422.0	1445.0	1458.4
22.5°	1361.9	1367.4	1384.0	1411.7	1428.4
25°	1314.4	1319.9	1341.3	1373.0	1390.4
27.5°	1260.6	1269.3	1293.0	1327.9	1351.6
30°	1203.6	1210.7	1237.6	1277.2	1297.0
32.5°	1142.7	1151.4	1176.7	1214.7	1232.1
35°	1078.6	1083.3	1108.7	1141.9	1164.8
37.5°	1005.8	1008.2	1031.9	1062.8	1083.3
40°	927.4	929.0	950.4	979.7	997.9
42.5°	845.9	846.7	869.7	891.8	907.7
45°	760.5	769.2	788.2	807.2	816.7
47.5°	683.7	690.0	707.5	724.1	732.8
50°	603.8	619.6	631.5	640.2	650.5
52.5°	534.9	548.4	551.6	561.8	570.6
55°	468.5	478.0	474.8	483.5	492.2
57.5°	412.3	407.5	397.2	412.3	423.4
60°	359.3	346.6	329.2	349.8	366.4
62.5°	311.8	291.2	269.8	290.4	318.1
65°	269.8	248.5	222.4	242.1	271.4
67.5°	238.2	216.0	185.2	205.0	234.2
70°	214.5	191.5	159.8	176.5	202.6
72.5°	195.5	170.9	143.2	154.3	176.5
75°	177.3	152.7	132.9	136.1	156.7
77.5°	155.9	137.7	121.9	120.3	136.1
80°	130.6	125.0	106.0	103.7	112.4
82.5°	107.6	105.2	87.0	84.7	87.8
85°	78.3	81.5	61.7	60.1	63.3
87.5°	41.1	45.1	32.4	34.0	34.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)