

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: P292496

Luminaire Tested: **22GR-LD5-36-A125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292496  
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-5500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3380.0 lumens  
Efficiency: N/A  
Efficacy: 117.2 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

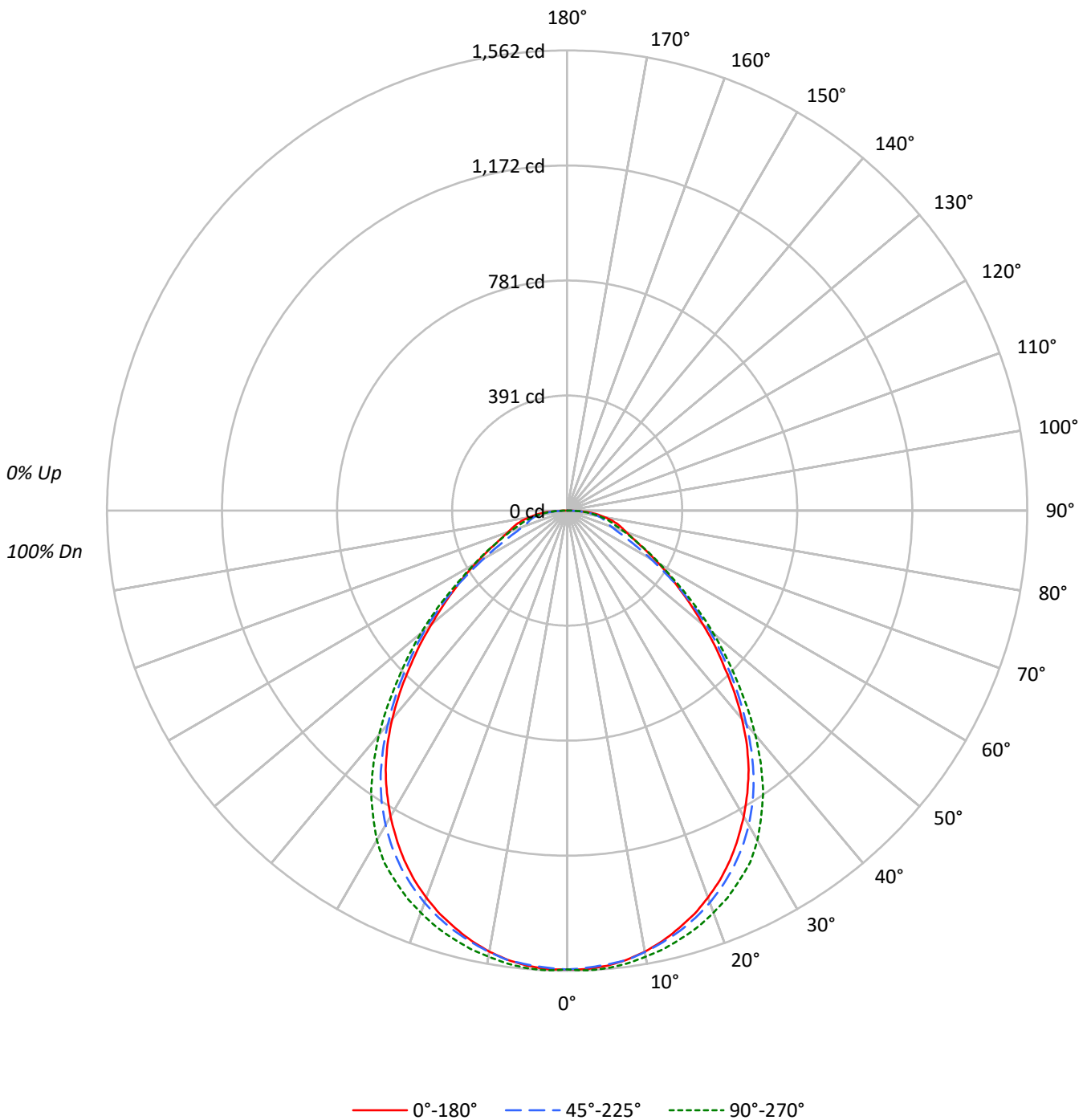
Input Watts (W): 28.83  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4193	4193	4193
5°	4189	4179	4213
10°	4154	4158	4201
15°	4088	4116	4187
20°	4003	4056	4159
25°	3887	3966	4111
30°	3725	3830	4013
35°	3529	3627	3811
40°	3244	3325	3491
45°	2882	2987	3095
50°	2517	2633	2712
55°	2189	2218	2300
60°	1926	1764	1964
65°	1711	1410	1721
70°	1681	1253	1587
75°	1835	1377	1622
80°	2015	1636	1734
85°	2408	1899	1945



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.2	4.4
10°-20°	417.6	12.4
20°-30°	616.5	18.2
30°-40°	689.8	20.4
40°-50°	605.8	17.9
50°-60°	428.6	12.7
60°-70°	249.5	7.4
70°-80°	155.5	4.6
80°-90°	69.6	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°	1181.3	34.9
0°-40°	1871.1	55.4
0°-60°	2905.5	86.0
0°-90°	3380.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3380.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1558	1558	1558	1558	1558	
5°	1551	1547	1547	1555	1560	147
15°	1467	1470	1478	1493	1503	413
25°	1309	1314	1336	1367	1385	601
35°	1074	1079	1104	1137	1160	668
45°	757	766	785	804	813	586
55°	466	476	473	482	490	422
65°	269	248	221	241	270	273
75°	176	152	132	136	156	184
85°	78	81	62	60	63	79
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1558.0	1558.0	1558.0	1558.0	1558.0
2.5°	1558.0	1554.9	1553.3	1558.8	1562.0
5°	1550.9	1547.0	1547.0	1554.9	1559.6
7.5°	1538.3	1534.4	1539.1	1546.2	1550.9
10°	1520.2	1518.6	1521.8	1531.2	1537.5
12.5°	1496.5	1497.3	1500.5	1515.5	1523.3
15°	1467.4	1470.5	1477.6	1493.4	1502.8
17.5°	1435.9	1438.2	1449.3	1467.4	1480.8
20°	1398.0	1402.8	1416.2	1439.0	1452.4
22.5°	1356.3	1361.8	1378.3	1405.9	1422.5
25°	1309.0	1314.5	1335.8	1367.3	1384.6
27.5°	1255.4	1264.1	1287.7	1322.4	1346.0
30°	1198.7	1205.7	1232.5	1271.9	1291.6
32.5°	1138.0	1146.6	1171.9	1209.7	1227.0
35°	1074.1	1078.9	1104.1	1137.2	1160.0
37.5°	1001.6	1004.0	1027.6	1058.4	1078.9
40°	923.6	925.2	946.5	975.6	993.8
42.5°	842.4	843.2	866.1	888.2	903.9
45°	757.3	766.0	784.9	803.8	813.3
47.5°	680.9	687.2	704.5	721.1	729.8
50°	601.3	617.1	628.9	637.5	647.8
52.5°	532.7	546.1	549.3	559.5	568.2
55°	466.5	476.0	472.8	481.5	490.2
57.5°	410.6	405.9	395.6	410.6	421.6
60°	357.8	345.2	327.8	348.3	364.9
62.5°	310.5	290.0	268.7	289.2	316.8
65°	268.7	247.5	221.4	241.1	270.3
67.5°	237.2	215.1	184.4	204.1	233.3
70°	213.6	190.7	159.2	175.7	201.7
72.5°	194.7	170.2	142.6	153.7	175.7
75°	176.5	152.1	132.4	135.5	156.0
77.5°	155.2	137.1	121.4	119.8	135.5
80°	130.0	124.5	105.6	103.2	111.9
82.5°	107.2	104.8	86.7	84.3	87.5
85°	78.0	81.2	61.5	59.9	63.0
87.5°	41.0	44.9	32.3	33.9	34.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)