

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: P292440

Luminaire Tested: **22GR-LD5-36-A125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292440  
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-L93050-W2A1-U-3500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3060.0 lumens  
Efficiency: N/A  
Efficacy: 106.8 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

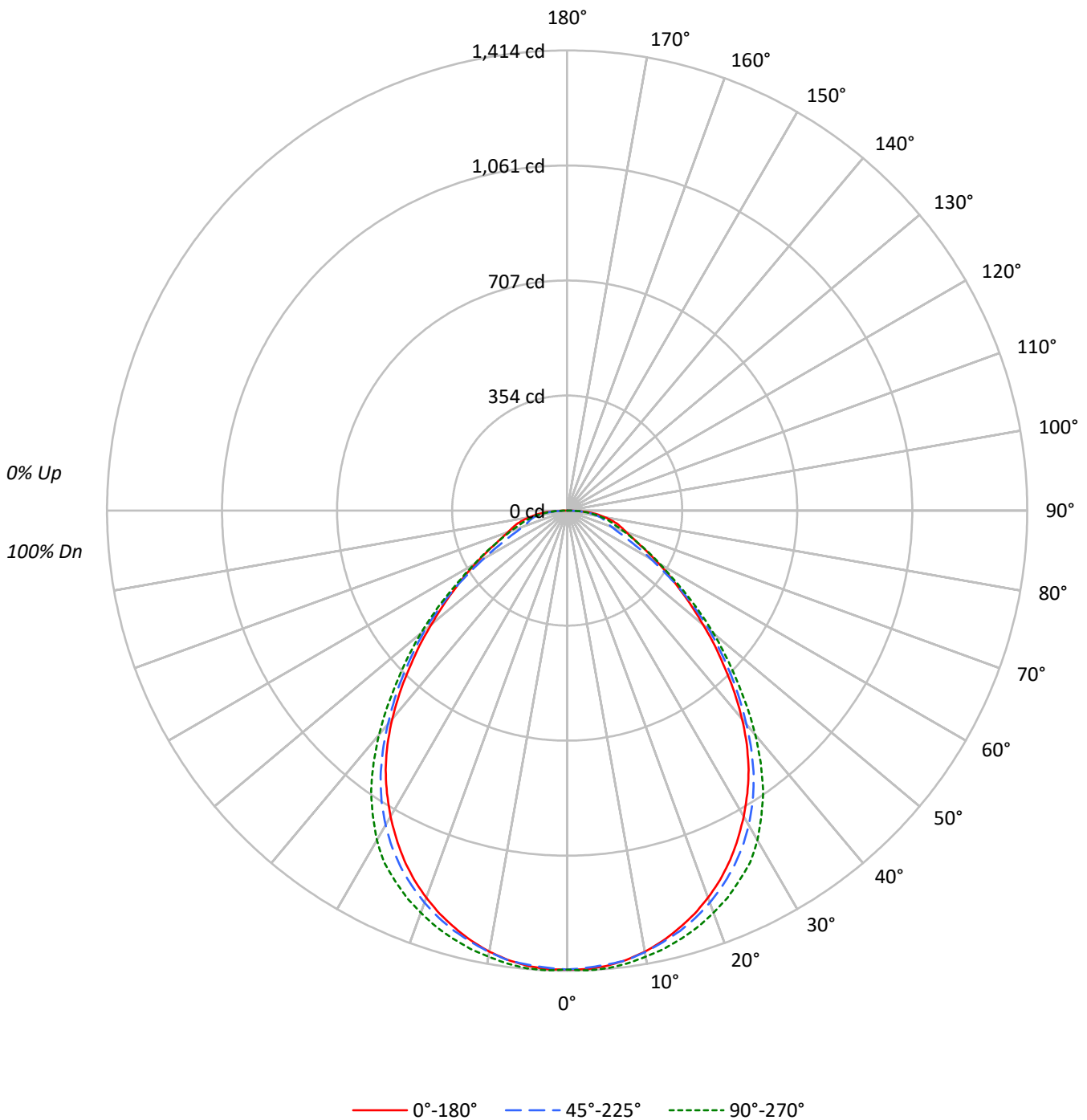
Input Watts (W): 28.644  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3796	3796	3796
5°	3793	3783	3814
10°	3761	3765	3804
15°	3701	3727	3791
20°	3625	3672	3765
25°	3519	3591	3722
30°	3372	3467	3634
35°	3194	3284	3450
40°	2937	3010	3160
45°	2609	2704	2802
50°	2279	2383	2455
55°	1982	2008	2082
60°	1743	1597	1778
65°	1549	1277	1558
70°	1521	1134	1437
75°	1661	1247	1469
80°	1824	1481	1570
85°	2180	1717	1763



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.3	4.4
10°-20°	378.0	12.4
20°-30°	558.1	18.2
30°-40°	624.5	20.4
40°-50°	548.4	17.9
50°-60°	388.0	12.7
60°-70°	225.9	7.4
70°-80°	140.8	4.6
80°-90°	63.0	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°	1069.4	34.9
0°-40°	1693.9	55.4
0°-60°	2630.4	86.0
0°-90°	3060.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3060.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1410	1410	1410	1410	1410	
5°	1404	1400	1400	1408	1412	133
15°	1328	1331	1338	1352	1361	374
25°	1185	1190	1209	1238	1254	544
35°	972	977	1000	1030	1050	605
45°	686	694	711	728	736	530
55°	422	431	428	436	444	382
65°	243	224	200	218	245	247
75°	160	138	120	123	141	167
85°	71	74	56	54	57	72
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1410.5	1410.5	1410.5	1410.5	1410.5
2.5°	1410.5	1407.7	1406.2	1411.2	1414.1
5°	1404.1	1400.5	1400.5	1407.7	1411.9
7.5°	1392.7	1389.1	1393.4	1399.8	1404.1
10°	1376.3	1374.8	1377.7	1386.3	1392.0
12.5°	1354.9	1355.6	1358.4	1372.0	1379.1
15°	1328.5	1331.3	1337.7	1352.0	1360.6
17.5°	1299.9	1302.1	1312.1	1328.5	1340.6
20°	1265.7	1270.0	1282.1	1302.8	1314.9
22.5°	1227.9	1232.9	1247.8	1272.8	1287.8
25°	1185.1	1190.0	1209.3	1237.9	1253.5
27.5°	1136.5	1144.4	1165.8	1197.2	1218.6
30°	1085.2	1091.6	1115.8	1151.5	1169.4
32.5°	1030.2	1038.1	1060.9	1095.2	1110.9
35°	972.4	976.7	999.6	1029.5	1050.2
37.5°	906.8	908.9	930.4	958.2	976.7
40°	836.2	837.6	856.9	883.3	899.7
42.5°	762.7	763.4	784.1	804.1	818.3
45°	685.6	693.5	710.6	727.7	736.3
47.5°	616.4	622.1	637.8	652.8	660.7
50°	544.4	558.6	569.3	577.2	586.5
52.5°	482.3	494.4	497.3	506.6	514.4
55°	422.4	430.9	428.1	435.9	443.8
57.5°	371.7	367.4	358.2	371.7	381.7
60°	323.9	312.5	296.8	315.3	330.3
62.5°	281.1	262.6	243.3	261.8	286.8
65°	243.3	224.0	200.5	218.3	244.7
67.5°	214.8	194.8	166.9	184.8	211.2
70°	193.3	172.7	144.1	159.1	182.6
72.5°	176.2	154.1	129.1	139.1	159.1
75°	159.8	137.7	119.9	122.7	141.3
77.5°	140.6	124.1	109.9	108.4	122.7
80°	117.7	112.7	95.6	93.5	101.3
82.5°	97.0	94.9	78.5	76.3	79.2
85°	70.6	73.5	55.6	54.2	57.1
87.5°	37.1	40.7	29.3	30.7	31.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)