

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: P292375

Luminaire Tested: **22GR-LD5-28-A125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292375  
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-LD5-28-A125-UNV-L82765-W2A1-U-3000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2741.0 lumens  
Efficiency: N/A  
Efficacy: 125.4 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

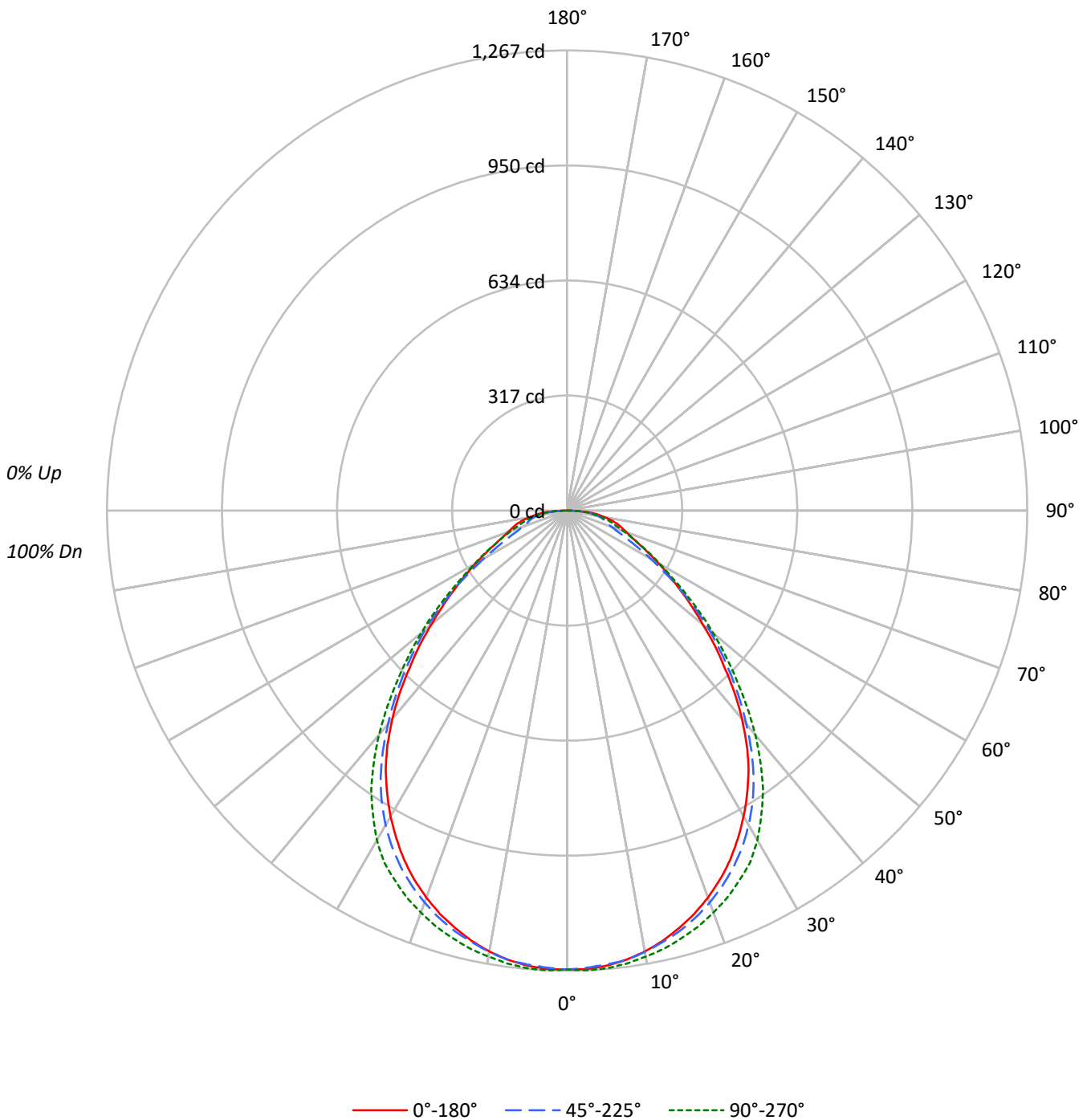
Input Watts (W): 21.855  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	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	52	46	41	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	34	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	29

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

	0°	45°	90°
0°	3400	3400	3400
5°	3397	3389	3416
10°	3369	3372	3407
15°	3315	3338	3395
20°	3247	3289	3373
25°	3152	3216	3334
30°	3020	3106	3255
35°	2862	2941	3090
40°	2631	2696	2831
45°	2337	2422	2510
50°	2041	2135	2199
55°	1775	1799	1865
60°	1561	1431	1593
65°	1387	1144	1396
70°	1363	1016	1287
75°	1489	1117	1315
80°	1633	1327	1406
85°	1954	1538	1578



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.4	4.4
10°-20°	338.6	12.4
20°-30°	499.9	18.2
30°-40°	559.4	20.4
40°-50°	491.2	17.9
50°-60°	347.6	12.7
60°-70°	202.3	7.4
70°-80°	126.1	4.6
80°-90°	56.4	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°	958.0	34.9
0°-40°	1517.4	55.4
0°-60°	2356.2	86.0
0°-90°	2741.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2741.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1264	1264	1264	1264	1264	
5°	1258	1254	1254	1261	1265	119
15°	1190	1192	1198	1211	1219	335
25°	1062	1066	1083	1109	1123	488
35°	871	875	895	922	941	542
45°	614	621	636	652	660	475
55°	378	386	383	390	398	342
65°	218	201	180	196	219	221
75°	143	123	107	110	126	150
85°	63	66	50	49	51	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1263.5	1263.5	1263.5	1263.5	1263.5
2.5°	1263.5	1260.9	1259.6	1264.1	1266.7
5°	1257.7	1254.5	1254.5	1260.9	1264.7
7.5°	1247.5	1244.3	1248.1	1253.9	1257.7
10°	1232.8	1231.5	1234.1	1241.7	1246.8
12.5°	1213.6	1214.3	1216.8	1229.0	1235.3
15°	1190.0	1192.5	1198.3	1211.1	1218.7
17.5°	1164.4	1166.3	1175.3	1190.0	1200.8
20°	1133.7	1137.6	1148.4	1167.0	1177.8
22.5°	1099.9	1104.3	1117.8	1140.1	1153.5
25°	1061.5	1066.0	1083.2	1108.8	1122.9
27.5°	1018.1	1025.1	1044.3	1072.4	1091.6
30°	972.0	977.8	999.5	1031.5	1047.5
32.5°	922.8	929.9	950.3	981.0	995.1
35°	871.1	874.9	895.4	922.2	940.7
37.5°	812.3	814.2	833.4	858.3	874.9
40°	749.0	750.3	767.5	791.2	805.9
42.5°	683.2	683.8	702.4	720.2	733.0
45°	614.2	621.2	636.5	651.9	659.5
47.5°	552.2	557.3	571.3	584.8	591.8
50°	487.6	500.4	510.0	517.0	525.3
52.5°	432.0	442.9	445.4	453.7	460.8
55°	378.3	386.0	383.4	390.5	397.5
57.5°	333.0	329.1	320.8	333.0	341.9
60°	290.1	279.9	265.9	282.5	295.9
62.5°	251.8	235.2	217.9	234.5	256.9
65°	217.9	200.7	179.6	195.6	219.2
67.5°	192.4	174.5	149.5	165.5	189.2
70°	173.2	154.7	129.1	142.5	163.6
72.5°	157.9	138.0	115.7	124.6	142.5
75°	143.2	123.3	107.4	109.9	126.5
77.5°	125.9	111.2	98.4	97.1	109.9
80°	105.4	101.0	85.6	83.7	90.7
82.5°	86.9	85.0	70.3	68.4	70.9
85°	63.3	65.8	49.8	48.6	51.1
87.5°	33.2	36.4	26.2	27.5	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)