

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: P292334

Luminaire Tested: **22GR-LD5-28-A125-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292334  
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-L83050-W2A1-U-4500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3078.0 lumens  
Efficiency: N/A  
Efficacy: 132.9 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

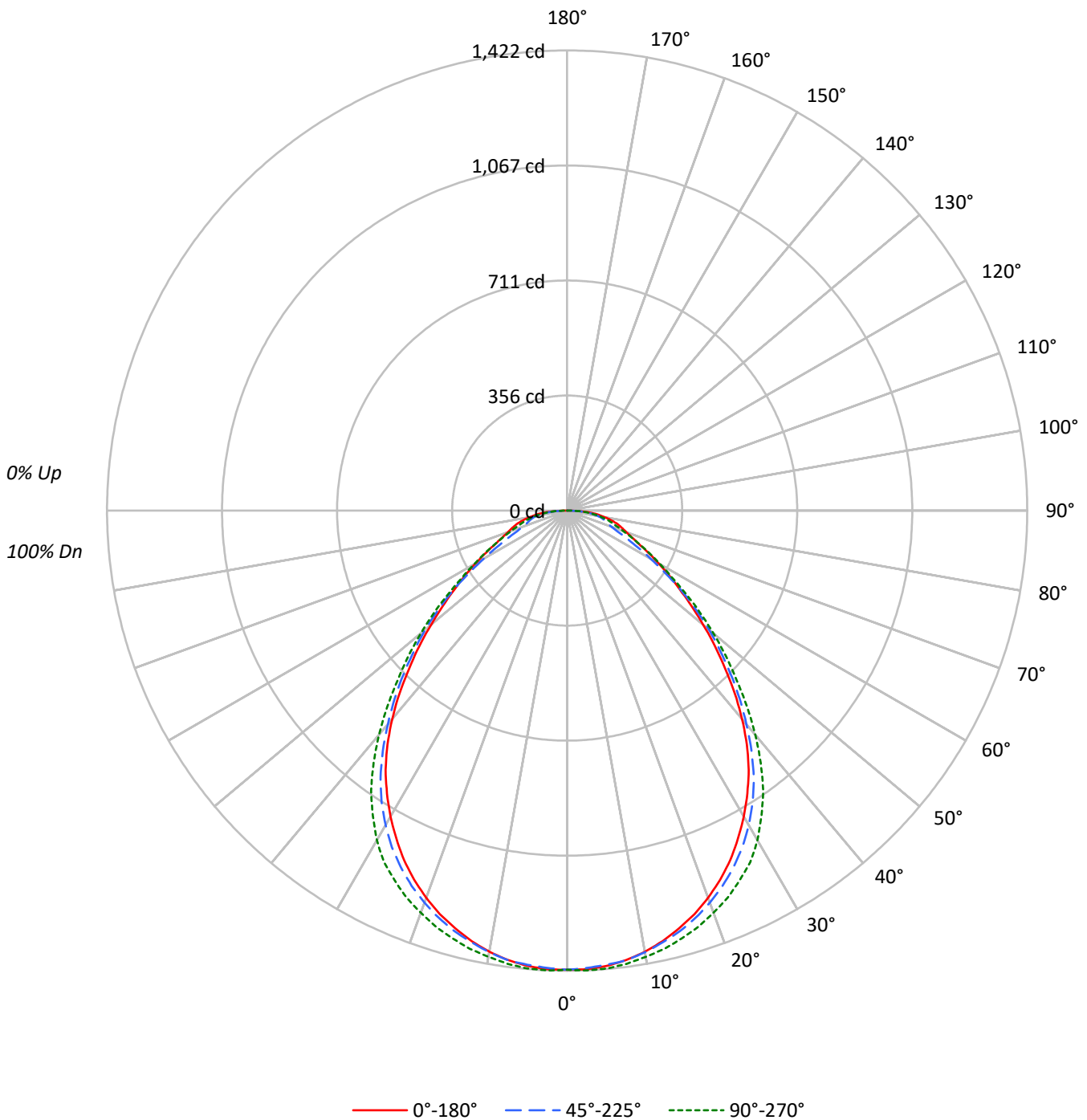
Input Watts (W): 23.157  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3818	3818	3818
5°	3815	3806	3836
10°	3783	3787	3826
15°	3723	3749	3813
20°	3646	3693	3788
25°	3539	3612	3744
30°	3392	3488	3655
35°	3213	3303	3470
40°	2955	3028	3179
45°	2625	2720	2818
50°	2292	2398	2470
55°	1993	2020	2094
60°	1753	1607	1788
65°	1558	1284	1568
70°	1530	1141	1445
75°	1672	1254	1477
80°	1835	1491	1579
85°	2192	1729	1772



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.1	4.4
10°-20°	380.3	12.4
20°-30°	561.4	18.2
30°-40°	628.2	20.4
40°-50°	551.6	17.9
50°-60°	390.3	12.7
60°-70°	227.2	7.4
70°-80°	141.6	4.6
80°-90°	63.3	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°	1075.7	34.9
0°-40°	1703.9	55.4
0°-60°	2645.9	86.0
0°-90°	3078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3078.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1419	1419	1419	1419	1419	
5°	1412	1409	1409	1416	1420	134
15°	1336	1339	1346	1360	1369	377
25°	1192	1197	1216	1245	1261	547
35°	978	982	1005	1036	1056	608
45°	690	698	715	732	741	533
55°	425	434	431	438	446	384
65°	245	225	202	220	246	248
75°	161	138	121	123	142	168
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°	1418.8	1418.8	1418.8	1418.8	1418.8
2.5°	1418.8	1415.9	1414.5	1419.5	1422.4
5°	1412.3	1408.8	1408.8	1415.9	1420.2
7.5°	1400.9	1397.3	1401.6	1408.0	1412.3
10°	1384.4	1382.9	1385.8	1394.4	1400.1
12.5°	1362.8	1363.5	1366.4	1380.1	1387.2
15°	1336.3	1339.1	1345.6	1360.0	1368.6
17.5°	1307.6	1309.7	1319.8	1336.3	1348.5
20°	1273.1	1277.4	1289.6	1310.4	1322.6
22.5°	1235.1	1240.1	1255.2	1280.3	1295.4
25°	1192.0	1197.0	1216.4	1245.1	1260.9
27.5°	1143.2	1151.1	1172.6	1204.2	1225.8
30°	1091.6	1098.0	1122.4	1158.3	1176.2
32.5°	1036.3	1044.2	1067.2	1101.6	1117.4
35°	978.2	982.5	1005.4	1035.6	1056.4
37.5°	912.1	914.3	935.8	963.8	982.5
40°	841.1	842.5	861.9	888.5	905.0
42.5°	767.2	767.9	788.7	808.8	823.2
45°	689.7	697.6	714.8	732.0	740.6
47.5°	620.1	625.8	641.6	656.7	664.5
50°	547.6	561.9	572.7	580.6	589.9
52.5°	485.1	497.3	500.2	509.5	517.4
55°	424.9	433.5	430.6	438.5	446.4
57.5°	373.9	369.6	360.3	373.9	383.9
60°	325.8	314.3	298.5	317.2	332.3
62.5°	282.8	264.1	244.7	263.4	288.5
65°	244.7	225.3	201.7	219.6	246.2
67.5°	216.0	195.9	167.9	185.9	212.4
70°	194.5	173.7	145.0	160.0	183.7
72.5°	177.3	155.0	129.9	139.9	160.0
75°	160.8	138.5	120.6	123.4	142.1
77.5°	141.4	124.9	110.5	109.1	123.4
80°	118.4	113.4	96.2	94.0	101.9
82.5°	97.6	95.4	78.9	76.8	79.7
85°	71.0	73.9	56.0	54.5	57.4
87.5°	37.3	40.9	29.4	30.9	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)