

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: P292284

Luminaire Tested: **22GR-LD5-28-A-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292284  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-28-A-UNV-L92765-W2A1-U-6500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2761.0 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

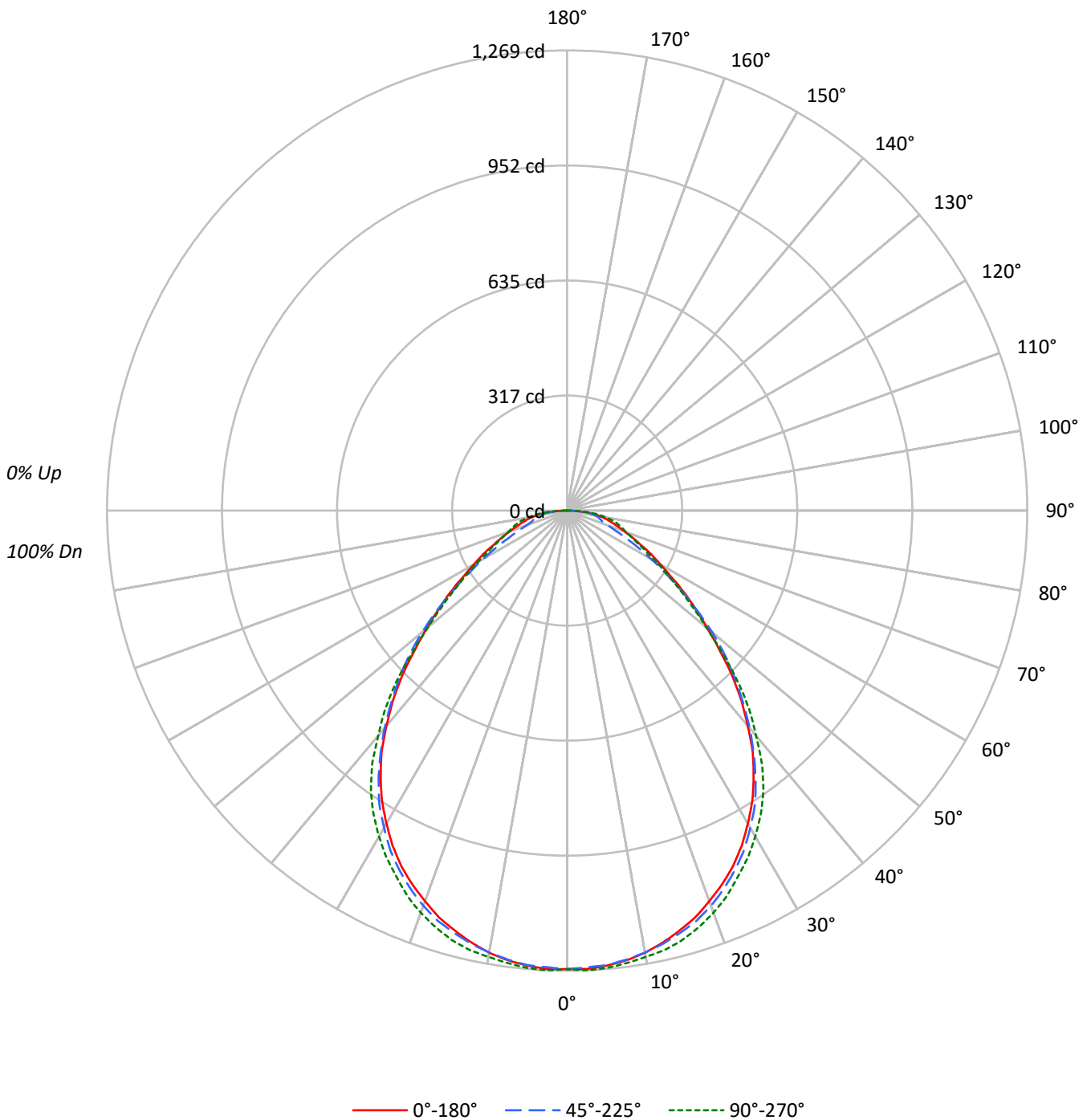
Input Watts (W): 23.064  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	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	53	46	42	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	35	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	30

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

	0°	45°	90°
0°	3402	3402	3402
5°	3403	3398	3419
10°	3383	3381	3415
15°	3340	3358	3417
20°	3282	3321	3380
25°	3213	3249	3308
30°	3096	3138	3224
35°	2944	2978	3098
40°	2722	2751	2848
45°	2445	2489	2528
50°	2114	2189	2093
55°	1845	1796	1772
60°	1597	1439	1535
65°	1428	1129	1379
70°	1324	935	1360
75°	1323	989	1510
80°	1463	1244	1703
85°	1528	1349	1924



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.7	4.3
10°-20°	340.8	12.3
20°-30°	504.0	18.3
30°-40°	568.8	20.6
40°-50°	501.4	18.2
50°-60°	344.0	12.5
60°-70°	202.9	7.4
70°-80°	126.7	4.6
80°-90°	52.8	1.9
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°	964.5	34.9
0°-40°	1533.2	55.5
0°-60°	2378.6	86.1
0°-90°	2761.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2761.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1264	1264	1264	1264	1264	
5°	1260	1257	1258	1262	1266	120
15°	1199	1200	1205	1220	1226	338
25°	1082	1086	1094	1108	1114	497
35°	896	904	907	928	943	558
45°	642	646	654	658	664	494
55°	393	384	383	370	378	353
65°	224	197	177	205	216	226
75°	127	114	95	133	145	136
85°	50	46	44	57	62	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1264.4	1264.4	1264.4	1264.4	1264.4
2.5°	1265.1	1261.9	1260.6	1265.7	1268.9
5°	1259.9	1257.4	1258.0	1262.5	1265.7
7.5°	1250.9	1249.0	1249.0	1255.4	1258.7
10°	1238.1	1237.5	1237.5	1245.2	1249.7
12.5°	1220.1	1220.7	1223.3	1233.6	1241.3
15°	1198.9	1200.2	1205.3	1220.1	1226.5
17.5°	1175.8	1175.8	1186.1	1197.6	1205.3
20°	1146.2	1148.1	1159.7	1172.6	1180.3
22.5°	1116.0	1119.2	1128.9	1143.6	1150.7
25°	1082.0	1085.8	1094.2	1108.3	1114.1
27.5°	1042.1	1047.3	1056.3	1066.5	1078.8
30°	996.5	1004.2	1010.0	1024.1	1037.6
32.5°	950.3	957.3	963.7	978.5	993.9
35°	896.3	904.0	906.6	928.4	943.2
37.5°	841.0	844.2	845.5	867.4	883.4
40°	774.9	781.3	783.2	800.6	810.8
42.5°	711.2	713.8	717.7	730.5	742.7
45°	642.5	645.7	654.1	657.9	664.3
47.5°	570.5	580.2	589.8	577.6	578.2
50°	505.0	512.7	523.0	499.9	499.9
52.5°	446.5	450.4	451.0	431.8	435.6
55°	393.2	383.6	382.9	370.1	377.8
57.5°	339.9	327.0	322.5	318.7	327.7
60°	296.8	273.7	267.3	273.1	285.3
62.5°	261.5	231.9	219.7	234.5	245.4
65°	224.2	197.2	177.3	205.0	216.5
67.5°	195.3	169.6	143.9	183.1	191.5
70°	168.3	148.4	118.9	166.4	172.8
72.5°	146.5	131.1	102.8	150.3	158.1
75°	127.2	114.4	95.1	133.0	145.2
77.5°	111.8	97.7	88.7	115.0	129.8
80°	94.4	80.3	80.3	96.4	109.9
82.5°	74.5	63.0	64.9	78.4	88.0
85°	49.5	46.3	43.7	57.2	62.3
87.5°	25.1	25.7	23.1	29.6	30.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)