

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: P292277

Luminaire Tested: **22GR-LD5-28-A-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292277  
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-3000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER WITH A LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2371.0 lumens  
Efficiency: N/A  
Efficacy: 108.5 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

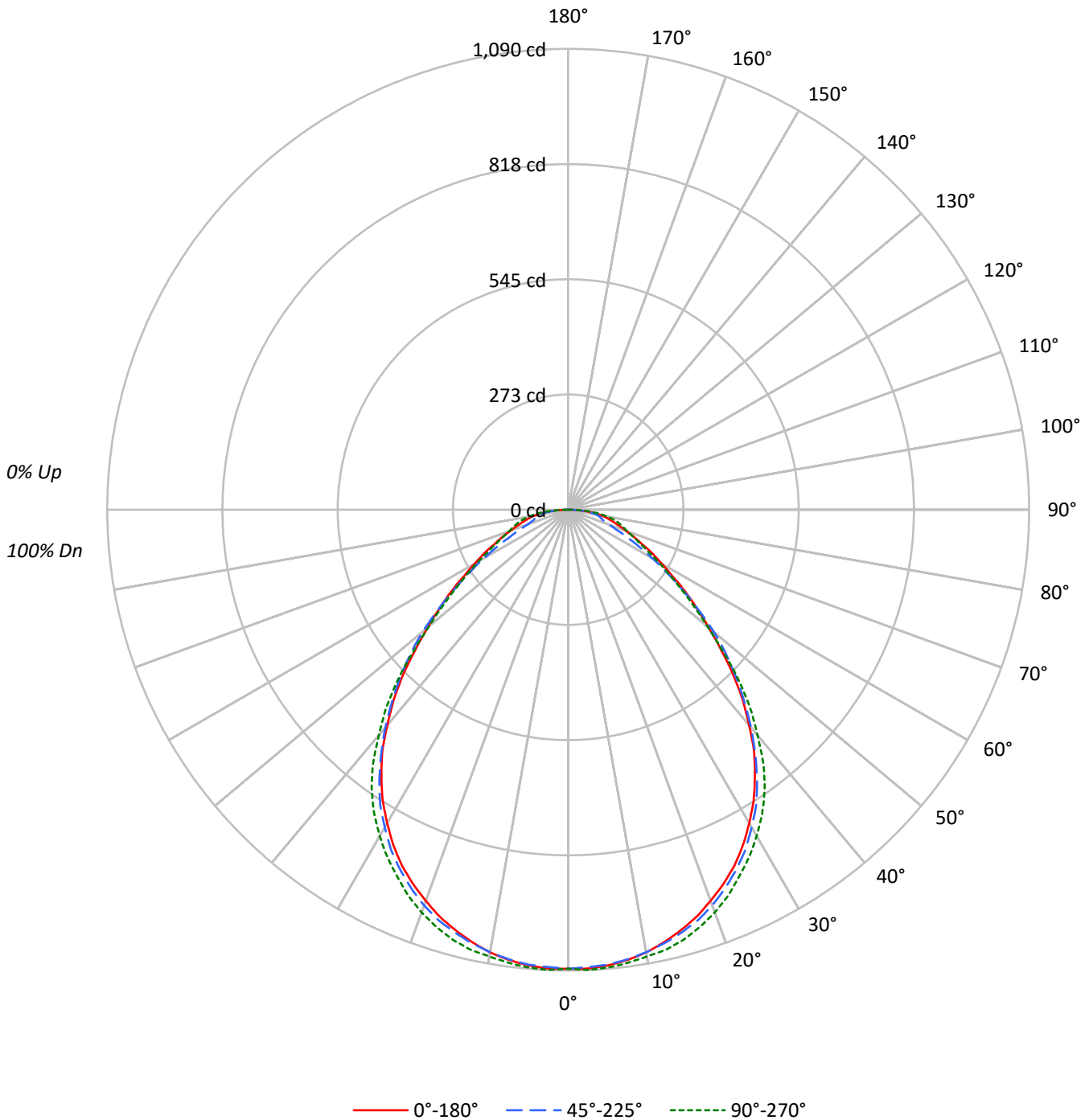
Input Watts (W): 21.855  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	2922	2922	2922
5°	2923	2918	2936
10°	2905	2904	2932
15°	2868	2884	2934
20°	2819	2852	2903
25°	2759	2790	2841
30°	2659	2695	2769
35°	2529	2557	2661
40°	2337	2363	2446
45°	2100	2138	2171
50°	1816	1880	1797
55°	1584	1543	1522
60°	1372	1235	1319
65°	1226	970	1184
70°	1138	803	1168
75°	1135	849	1297
80°	1257	1069	1461
85°	1312	1158	1652



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.8	4.3
10°-20°	292.7	12.3
20°-30°	432.8	18.3
30°-40°	488.4	20.6
40°-50°	430.6	18.2
50°-60°	295.4	12.5
60°-70°	174.3	7.4
70°-80°	108.8	4.6
80°-90°	45.4	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°	828.2	34.9
0°-40°	1316.7	55.5
0°-60°	2042.6	86.1
0°-90°	2371.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2371.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1086	1086	1086	1086	1086	
5°	1082	1080	1080	1084	1087	103
15°	1030	1031	1035	1048	1053	290
25°	929	932	940	952	957	427
35°	770	776	778	797	810	480
45°	552	554	562	565	570	424
55°	338	329	329	318	324	303
65°	193	169	152	176	186	194
75°	109	98	82	114	125	117
85°	42	40	38	49	54	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1085.8	1085.8	1085.8	1085.8	1085.8
2.5°	1086.4	1083.6	1082.5	1086.9	1089.7
5°	1082.0	1079.8	1080.3	1084.2	1086.9
7.5°	1074.2	1072.6	1072.6	1078.1	1080.9
10°	1063.2	1062.7	1062.7	1069.3	1073.1
12.5°	1047.8	1048.3	1050.5	1059.3	1066.0
15°	1029.6	1030.7	1035.1	1047.8	1053.3
17.5°	1009.7	1009.7	1018.5	1028.5	1035.1
20°	984.3	986.0	995.9	1006.9	1013.6
22.5°	958.4	961.1	969.4	982.1	988.2
25°	929.1	932.4	939.6	951.8	956.7
27.5°	894.9	899.3	907.1	915.9	926.4
30°	855.8	862.4	867.3	879.5	891.1
32.5°	816.0	822.1	827.6	840.3	853.5
35°	769.7	776.3	778.5	797.3	810.0
37.5°	722.2	725.0	726.1	744.9	758.6
40°	665.4	670.9	672.6	687.5	696.3
42.5°	610.8	613.0	616.3	627.3	637.8
45°	551.7	554.5	561.7	565.0	570.5
47.5°	489.9	498.2	506.5	496.0	496.6
50°	433.7	440.3	449.1	429.3	429.3
52.5°	383.5	386.8	387.3	370.8	374.1
55°	337.7	329.4	328.8	317.8	324.4
57.5°	291.9	280.8	277.0	273.7	281.4
60°	254.9	235.0	229.5	234.5	245.0
62.5°	224.6	199.2	188.7	201.4	210.8
65°	192.6	169.4	152.3	176.0	185.9
67.5°	167.7	145.7	123.6	157.2	164.4
70°	144.6	127.5	102.1	142.9	148.4
72.5°	125.8	112.6	88.3	129.1	135.7
75°	109.2	98.2	81.7	114.2	124.7
77.5°	96.0	83.9	76.1	98.8	111.5
80°	81.1	69.0	69.0	82.8	94.3
82.5°	64.0	54.1	55.7	67.3	75.6
85°	42.5	39.7	37.5	49.1	53.5
87.5°	21.5	22.1	19.9	25.4	25.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)