

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: P292275

Luminaire Tested: **22GR-LD5-24-A-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292275  
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-LD5-24-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: 2309.0 lumens  
Efficiency: N/A  
Efficacy: 121.7 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

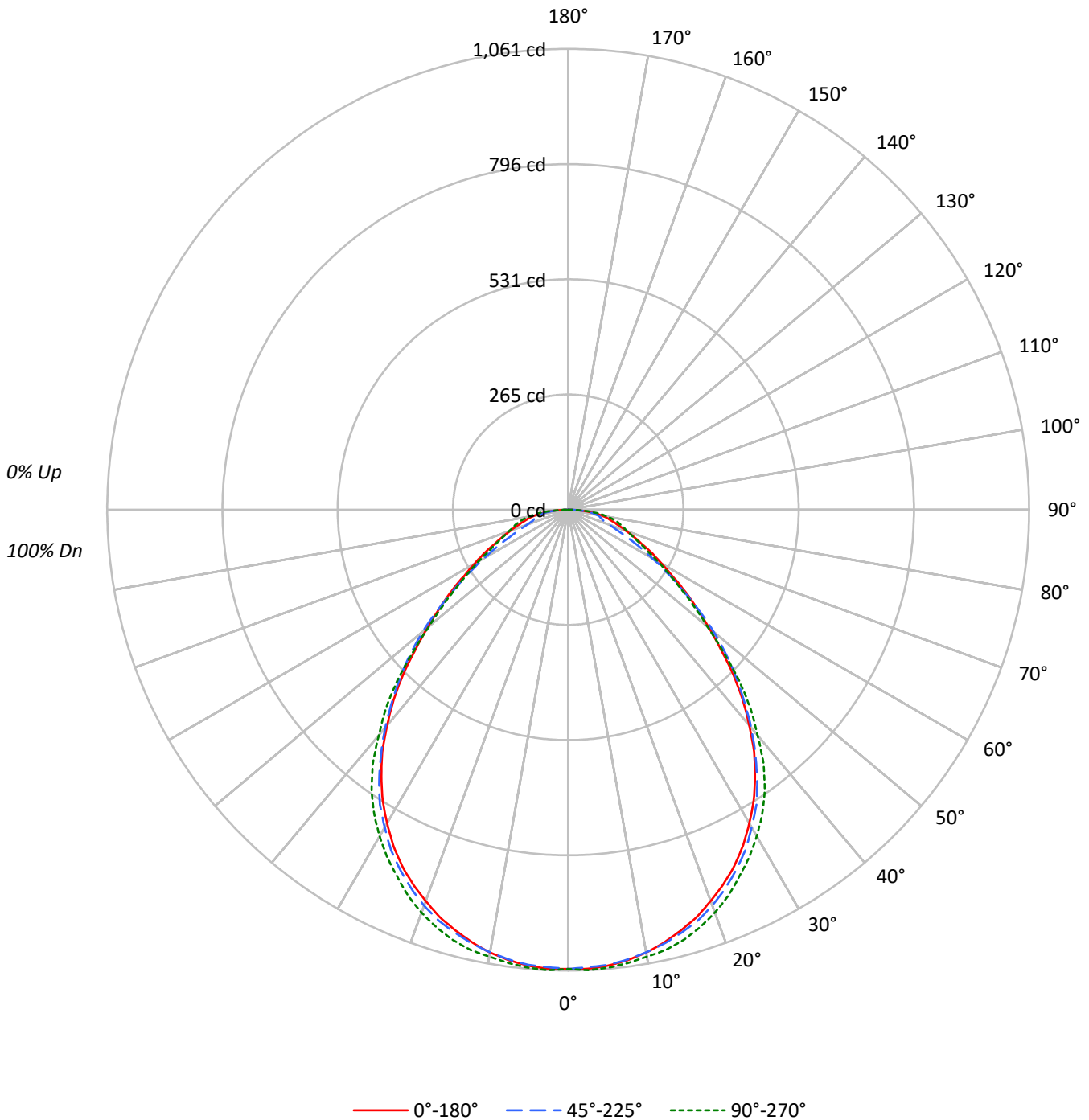
Input Watts (W): 18.972  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2845	2845	2845
5°	2846	2842	2859
10°	2829	2828	2856
15°	2793	2808	2858
20°	2745	2777	2827
25°	2687	2717	2766
30°	2590	2625	2696
35°	2462	2491	2591
40°	2276	2301	2382
45°	2045	2082	2114
50°	1768	1831	1750
55°	1543	1502	1482
60°	1336	1203	1284
65°	1194	944	1153
70°	1108	782	1137
75°	1106	827	1262
80°	1224	1041	1424
85°	1278	1127	1609



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.1	4.3
10°-20°	285.0	12.3
20°-30°	421.5	18.3
30°-40°	475.7	20.6
40°-50°	419.3	18.2
50°-60°	287.6	12.5
60°-70°	169.7	7.4
70°-80°	105.9	4.6
80°-90°	44.2	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°	806.6	34.9
0°-40°	1282.2	55.5
0°-60°	1989.2	86.1
0°-90°	2309.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2309.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1057	1057	1057	1057	1057	
5°	1054	1052	1052	1056	1058	100
15°	1003	1004	1008	1020	1026	283
25°	905	908	915	927	932	416
35°	750	756	758	776	789	467
45°	537	540	547	550	556	413
55°	329	321	320	310	316	295
65°	188	165	148	171	181	189
75°	106	96	80	111	121	114
85°	41	39	36	48	52	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1057.4	1057.4	1057.4	1057.4	1057.4
2.5°	1058.0	1055.3	1054.2	1058.5	1061.2
5°	1053.7	1051.5	1052.1	1055.8	1058.5
7.5°	1046.2	1044.5	1044.5	1049.9	1052.6
10°	1035.4	1034.9	1034.9	1041.3	1045.1
12.5°	1020.4	1020.9	1023.1	1031.6	1038.1
15°	1002.6	1003.7	1008.0	1020.4	1025.7
17.5°	983.3	983.3	991.9	1001.6	1008.0
20°	958.6	960.2	969.9	980.6	987.1
22.5°	933.3	936.0	944.1	956.4	962.3
25°	904.8	908.1	915.0	926.9	931.7
27.5°	871.5	875.8	883.3	891.9	902.2
30°	833.4	839.8	844.7	856.5	867.8
32.5°	794.7	800.6	806.0	818.3	831.2
35°	749.6	756.0	758.2	776.4	788.8
37.5°	703.3	706.0	707.1	725.4	738.8
40°	648.0	653.4	655.0	669.5	678.1
42.5°	594.8	597.0	600.2	610.9	621.1
45°	537.3	540.0	547.0	550.2	555.6
47.5°	477.1	485.2	493.3	483.0	483.6
50°	422.3	428.8	437.4	418.0	418.0
52.5°	373.4	376.7	377.2	361.1	364.3
55°	328.8	320.8	320.2	309.5	315.9
57.5°	284.2	273.5	269.7	266.5	274.0
60°	248.2	228.9	223.5	228.4	238.6
62.5°	218.7	194.0	183.8	196.1	205.3
65°	187.5	165.0	148.3	171.4	181.1
67.5°	163.3	141.9	120.4	153.1	160.1
70°	140.8	124.1	99.4	139.2	144.5
72.5°	122.5	109.6	86.0	125.7	132.2
75°	106.4	95.6	79.5	111.2	121.4
77.5°	93.5	81.7	74.1	96.2	108.5
80°	79.0	67.2	67.2	80.6	91.9
82.5°	62.3	52.7	54.3	65.6	73.6
85°	41.4	38.7	36.5	47.8	52.1
87.5°	21.0	21.5	19.3	24.7	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)