

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: P292465

Luminaire Tested: **22GR-LD5-24-A125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292465  
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-LD5-24-A125-UNV-L92765-W2A1-U-3500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2077.0 lumens  
Efficiency: N/A  
Efficacy: 114.5 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

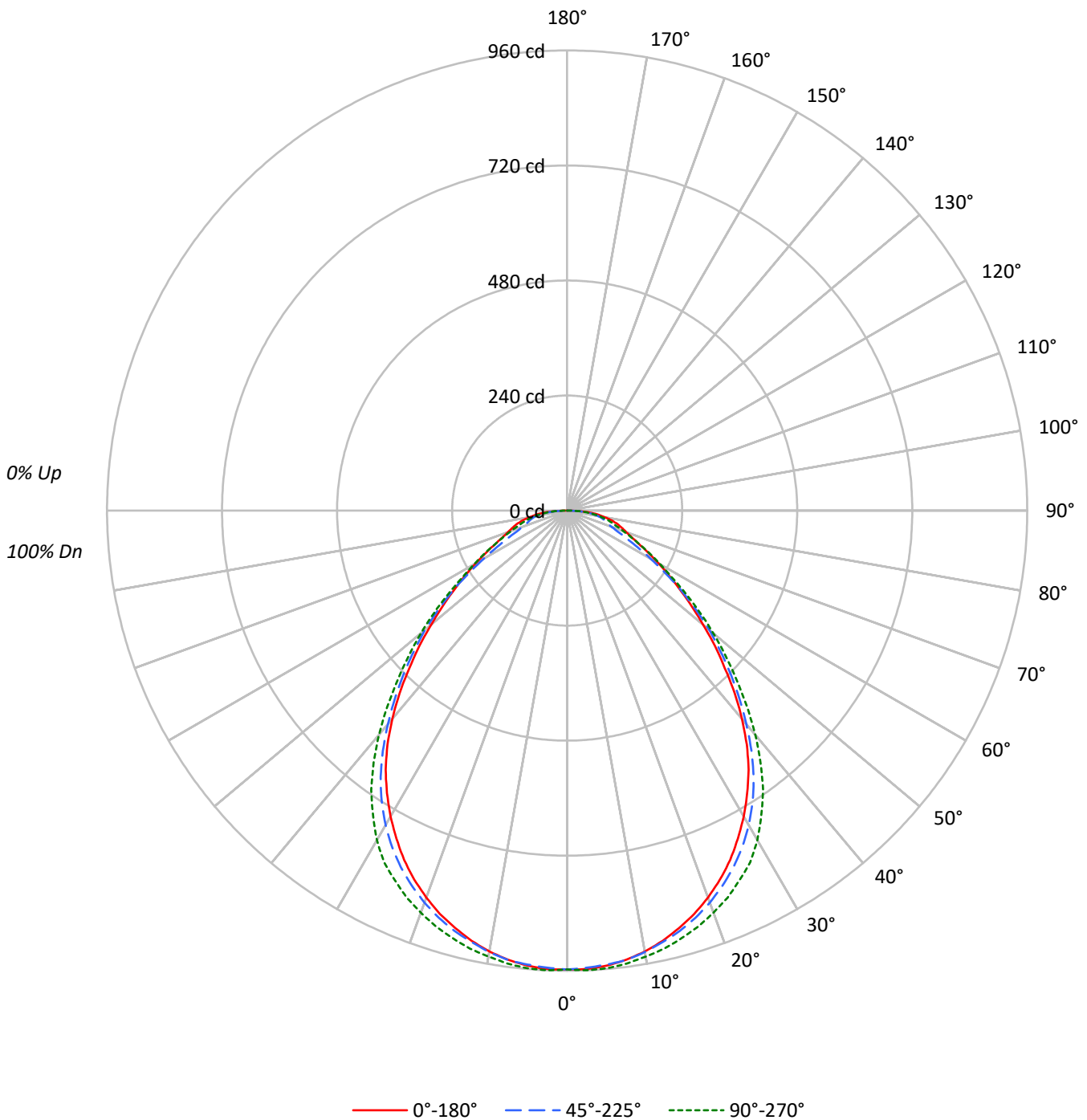
Input Watts (W): 18.135  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	2576	2576	2576
5°	2574	2568	2589
10°	2552	2555	2582
15°	2512	2530	2573
20°	2460	2492	2556
25°	2388	2437	2526
30°	2289	2353	2466
35°	2168	2229	2342
40°	1994	2043	2145
45°	1771	1835	1902
50°	1547	1618	1667
55°	1345	1363	1413
60°	1183	1084	1207
65°	1051	867	1058
70°	1032	769	976
75°	1128	846	997
80°	1238	1006	1066
85°	1479	1167	1195



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.5	4.4
10°-20°	256.6	12.4
20°-30°	378.8	18.2
30°-40°	423.9	20.4
40°-50°	372.2	17.9
50°-60°	263.4	12.7
60°-70°	153.3	7.4
70°-80°	95.6	4.6
80°-90°	42.8	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°	725.9	34.9
0°-40°	1149.8	55.4
0°-60°	1785.4	86.0
0°-90°	2077.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2077.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	957	957	957	957	957	
5°	953	951	951	956	958	90
15°	902	904	908	918	924	254
25°	804	808	821	840	851	369
35°	660	663	678	699	713	411
45°	465	471	482	494	500	360
55°	287	292	291	296	301	259
65°	165	152	136	148	166	167
75°	108	94	81	83	96	113
85°	48	50	38	37	39	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	957.4	957.4	957.4	957.4	957.4
2.5°	957.4	955.5	954.5	957.9	959.8
5°	953.0	950.6	950.6	955.5	958.4
7.5°	945.3	942.9	945.8	950.1	953.0
10°	934.1	933.2	935.1	940.9	944.8
12.5°	919.6	920.1	922.0	931.2	936.1
15°	901.7	903.6	908.0	917.7	923.5
17.5°	882.3	883.8	890.6	901.7	909.9
20°	859.1	862.0	870.2	884.3	892.5
22.5°	833.4	836.8	847.0	863.9	874.1
25°	804.4	807.8	820.8	840.2	850.9
27.5°	771.4	776.8	791.3	812.6	827.1
30°	736.6	740.9	757.4	781.6	793.7
32.5°	699.3	704.6	720.1	743.3	754.0
35°	660.1	663.0	678.5	698.8	712.8
37.5°	615.5	617.0	631.5	650.4	663.0
40°	567.6	568.5	581.6	599.5	610.7
42.5°	517.7	518.2	532.2	545.8	555.5
45°	465.4	470.7	482.3	494.0	499.8
47.5°	418.4	422.3	432.9	443.1	448.4
50°	369.5	379.2	386.4	391.8	398.1
52.5°	327.4	335.6	337.5	343.8	349.2
55°	286.7	292.5	290.6	295.9	301.2
57.5°	252.3	249.4	243.1	252.3	259.1
60°	219.9	212.1	201.5	214.0	224.2
62.5°	190.8	178.2	165.1	177.7	194.7
65°	165.1	152.1	136.1	148.2	166.1
67.5°	145.8	132.2	113.3	125.4	143.3
70°	131.2	117.2	97.8	108.0	124.0
72.5°	119.6	104.6	87.7	94.4	108.0
75°	108.5	93.5	81.4	83.3	95.9
77.5°	95.4	84.3	74.6	73.6	83.3
80°	79.9	76.5	64.9	63.4	68.8
82.5°	65.9	64.4	53.3	51.8	53.8
85°	47.9	49.9	37.8	36.8	38.7
87.5°	25.2	27.6	19.9	20.8	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)