

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: P292424

Luminaire Tested: **22GR-LD5-24-A125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292424  
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-L93050-W2A1-U-3000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1889.0 lumens  
Efficiency: N/A  
Efficacy: 102.1 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

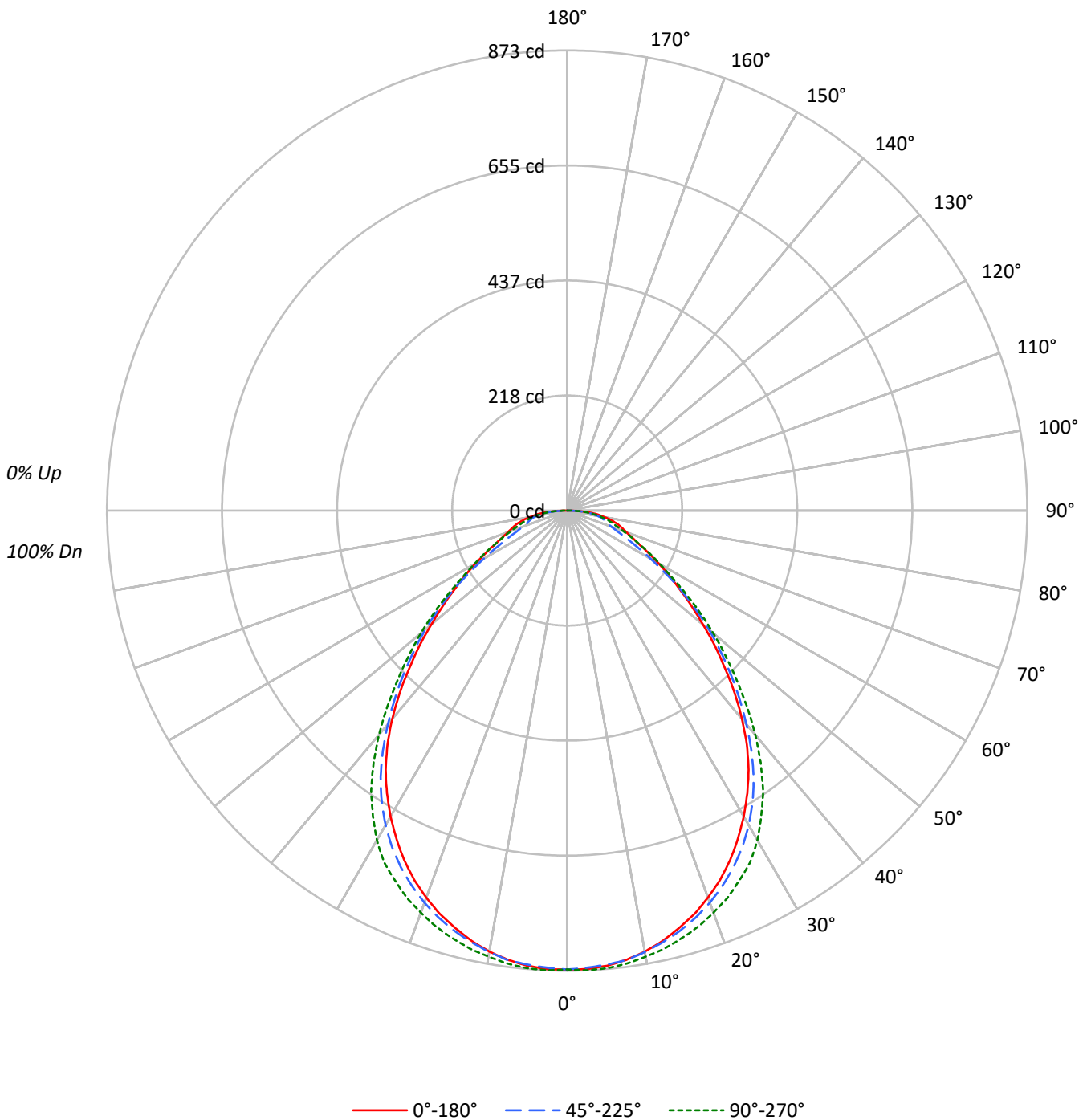
Input Watts (W): 18.507  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2343	2343	2343
5°	2341	2336	2354
10°	2322	2324	2348
15°	2285	2301	2340
20°	2237	2267	2324
25°	2172	2216	2298
30°	2082	2140	2243
35°	1972	2027	2130
40°	1813	1858	1951
45°	1611	1670	1730
50°	1407	1472	1515
55°	1223	1240	1285
60°	1076	986	1097
65°	956	788	962
70°	939	700	887
75°	1026	769	907
80°	1127	914	969
85°	1346	1062	1087



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.3	4.4
10°-20°	233.4	12.4
20°-30°	344.5	18.2
30°-40°	385.5	20.4
40°-50°	338.5	17.9
50°-60°	239.6	12.7
60°-70°	139.4	7.4
70°-80°	86.9	4.6
80°-90°	38.9	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°	660.2	34.9
0°-40°	1045.7	55.4
0°-60°	1623.8	86.0
0°-90°	1889.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1889.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	871	871	871	871	871	
5°	867	865	865	869	872	82
15°	820	822	826	835	840	231
25°	732	735	746	764	774	336
35°	600	603	617	636	648	373
45°	423	428	439	449	454	327
55°	261	266	264	269	274	236
65°	150	138	124	135	151	152
75°	99	85	74	76	87	103
85°	44	45	34	34	35	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	870.7	870.7	870.7	870.7	870.7
2.5°	870.7	869.0	868.1	871.2	872.9
5°	866.8	864.6	864.6	869.0	871.6
7.5°	859.7	857.5	860.2	864.1	866.8
10°	849.6	848.7	850.5	855.8	859.3
12.5°	836.4	836.8	838.6	847.0	851.4
15°	820.1	821.8	825.8	834.6	839.9
17.5°	802.5	803.8	810.0	820.1	827.6
20°	781.3	784.0	791.5	804.2	811.7
22.5°	758.0	761.1	770.3	785.7	795.0
25°	731.6	734.6	746.5	764.2	773.8
27.5°	701.6	706.5	719.7	739.0	752.3
30°	669.9	673.9	688.8	710.9	721.9
32.5°	636.0	640.8	654.9	676.1	685.8
35°	600.3	603.0	617.0	635.5	648.3
37.5°	559.8	561.1	574.3	591.5	603.0
40°	516.2	517.1	529.0	545.3	555.4
42.5°	470.8	471.3	484.0	496.4	505.2
45°	423.3	428.1	438.7	449.2	454.5
47.5°	380.5	384.1	393.7	403.0	407.8
50°	336.1	344.9	351.5	356.3	362.0
52.5°	297.7	305.2	307.0	312.7	317.6
55°	260.7	266.0	264.3	269.1	273.9
57.5°	229.5	226.8	221.1	229.5	235.6
60°	200.0	192.9	183.2	194.7	203.9
62.5°	173.5	162.1	150.2	161.6	177.1
65°	150.2	138.3	123.8	134.8	151.1
67.5°	132.6	120.2	103.1	114.1	130.4
70°	119.4	106.6	89.0	98.2	112.8
72.5°	108.8	95.1	79.7	85.9	98.2
75°	98.7	85.0	74.0	75.8	87.2
77.5°	86.8	76.6	67.8	66.9	75.8
80°	72.7	69.6	59.0	57.7	62.5
82.5°	59.9	58.6	48.4	47.1	48.9
85°	43.6	45.4	34.4	33.5	35.2
87.5°	22.9	25.1	18.1	18.9	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)