

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: P292368

Luminaire Tested: **22GR-LD5-24-A125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292368  
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-L82765-W2A1-U-4000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2424.0 lumens  
Efficiency: N/A  
Efficacy: 132.3 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

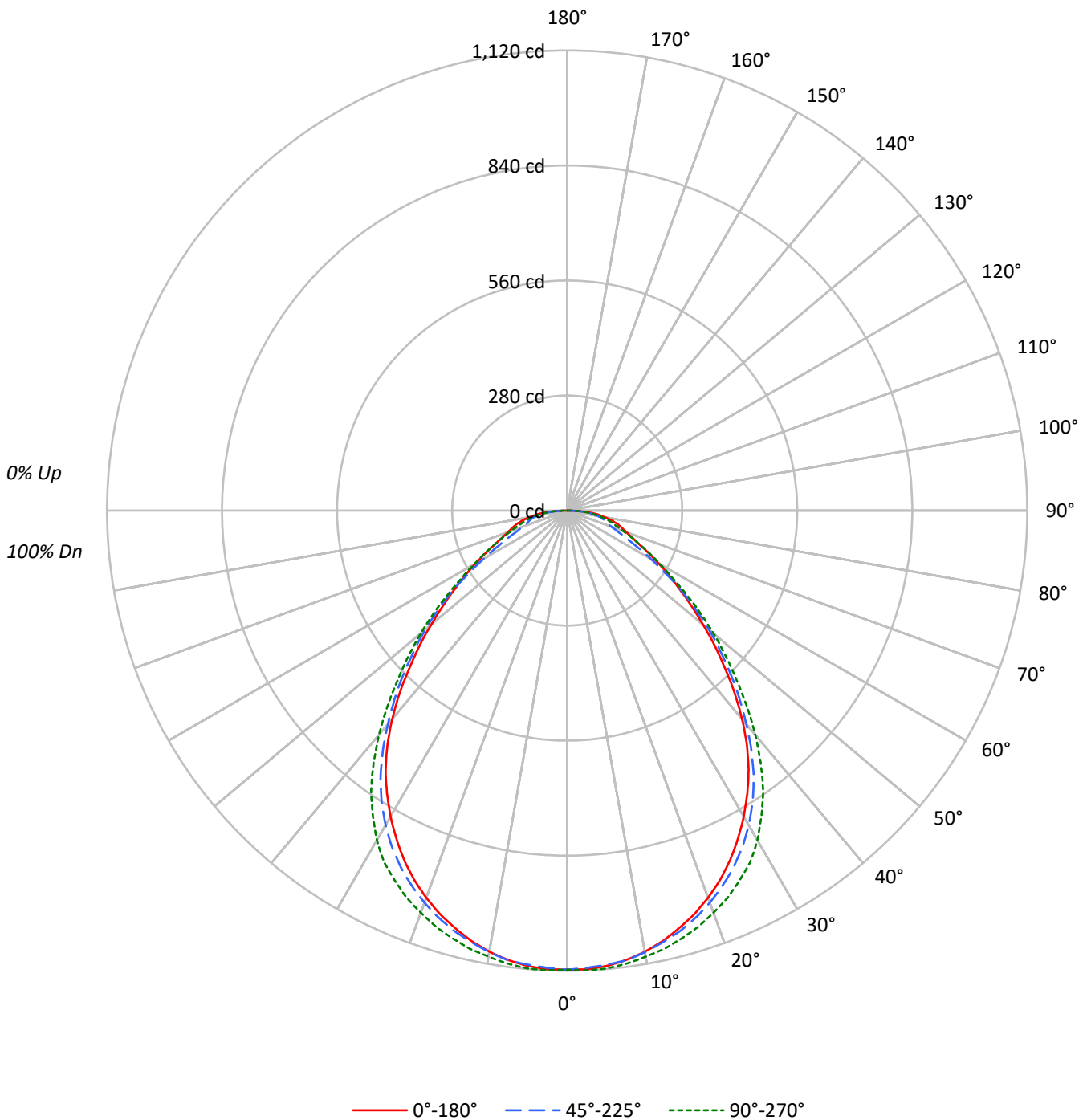
Input Watts (W): 18.321  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3007	3007	3007
5°	3005	2997	3021
10°	2979	2982	3013
15°	2932	2952	3003
20°	2871	2908	2983
25°	2787	2844	2948
30°	2671	2747	2878
35°	2530	2601	2733
40°	2327	2385	2504
45°	2067	2142	2220
50°	1805	1888	1945
55°	1570	1591	1649
60°	1381	1265	1408
65°	1227	1011	1235
70°	1205	899	1138
75°	1316	987	1163
80°	1446	1173	1244
85°	1729	1362	1396



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.6	4.4
10°-20°	299.5	12.4
20°-30°	442.1	18.2
30°-40°	494.7	20.4
40°-50°	434.4	17.9
50°-60°	307.4	12.7
60°-70°	178.9	7.4
70°-80°	111.5	4.6
80°-90°	49.9	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°	847.2	34.9
0°-40°	1341.9	55.4
0°-60°	2083.7	86.0
0°-90°	2424.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2424.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1117	1117	1117	1117	1117	
5°	1112	1109	1109	1115	1118	105
15°	1052	1055	1060	1071	1078	296
25°	939	943	958	981	993	431
35°	770	774	792	816	832	479
45°	543	549	563	576	583	420
55°	335	341	339	345	352	302
65°	193	178	159	173	194	195
75°	127	109	95	97	112	132
85°	56	58	44	43	45	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1117.3	1117.3	1117.3	1117.3	<i>1117.3</i>
2.5°	<i>1117.3</i>	<i>1115.1</i>	<i>1114.0</i>	<i>1117.9</i>	<i>1120.2</i>
5°	1112.3	1109.4	1109.4	1115.1	<i>1118.5</i>
7.5°	1103.2	1100.4	1103.8	1108.9	<i>1112.3</i>
10°	1090.2	1089.1	1091.3	1098.1	<i>1102.6</i>
12.5°	1073.3	1073.8	1076.1	1086.8	<i>1092.5</i>
15°	1052.3	1054.6	1059.7	1071.0	<i>1077.8</i>
17.5°	1029.7	1031.4	1039.4	1052.3	<i>1062.0</i>
20°	1002.6	1006.0	1015.6	1032.0	<i>1041.6</i>
22.5°	972.7	976.6	988.5	1008.3	<i>1020.1</i>
25°	938.7	942.7	958.0	980.6	<i>993.0</i>
27.5°	900.3	906.5	923.5	948.4	<i>965.3</i>
30°	859.6	864.7	883.9	912.2	<i>926.3</i>
32.5°	816.1	822.3	840.4	867.5	<i>880.0</i>
35°	770.3	773.7	791.8	815.5	<i>831.9</i>
37.5°	718.3	720.0	737.0	759.0	<i>773.7</i>
40°	662.4	663.5	678.8	699.7	<i>712.7</i>
42.5°	604.2	604.7	621.1	636.9	<i>648.3</i>
45°	543.1	549.3	562.9	576.5	<i>583.3</i>
47.5°	488.3	492.8	505.3	517.1	<i>523.3</i>
50°	431.2	442.5	451.0	457.2	<i>464.6</i>
52.5°	382.1	391.7	393.9	401.3	<i>407.5</i>
55°	334.6	341.4	339.1	345.3	<i>351.5</i>
57.5°	294.5	291.1	283.7	294.5	<i>302.4</i>
60°	256.6	247.5	235.1	249.8	<i>261.7</i>
62.5°	222.7	208.0	192.7	207.4	<i>227.2</i>
65°	192.7	177.5	158.8	172.9	<i>193.9</i>
67.5°	170.1	154.3	132.3	146.4	<i>167.3</i>
70°	153.2	136.8	114.2	126.0	<i>144.7</i>
72.5°	139.6	122.1	102.3	110.2	<i>126.0</i>
75°	126.6	109.1	94.9	97.2	<i>111.9</i>
77.5°	111.3	98.3	87.0	85.9	<i>97.2</i>
80°	93.3	89.3	75.7	74.0	<i>80.3</i>
82.5°	76.9	75.2	62.2	60.5	<i>62.7</i>
85°	56.0	58.2	44.1	43.0	<i>45.2</i>
87.5°	29.4	32.2	23.2	24.3	<i>24.9</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)