

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: P292428

Luminaire Tested: **22GR-LD5-24-A125-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292428  
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-5000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2268.0 lumens  
Efficiency: N/A  
Efficacy: 120.1 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

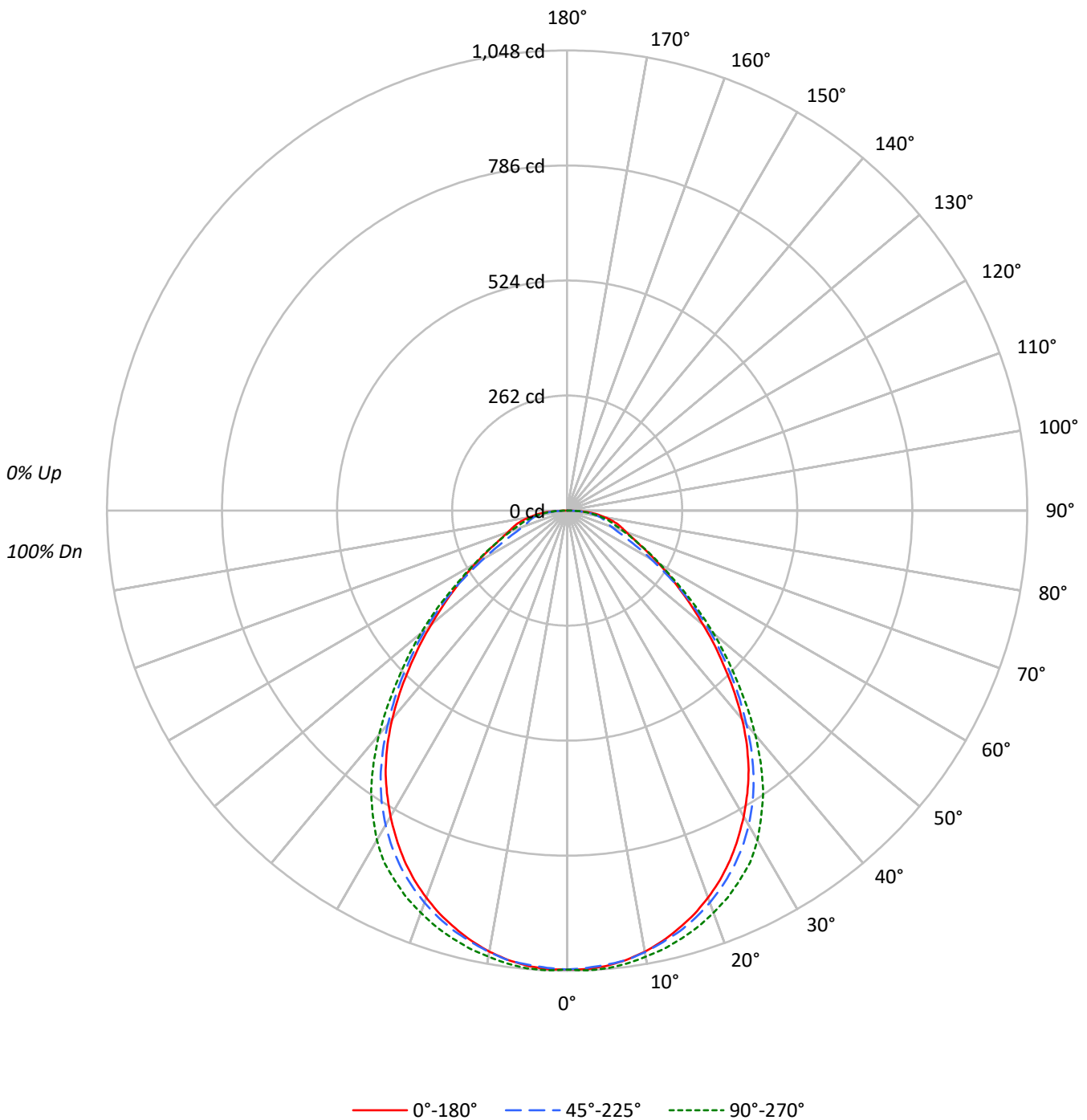
Input Watts (W): 18.879  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2813	2813	2813
5°	2811	2804	2827
10°	2787	2790	2819
15°	2743	2762	2809
20°	2686	2721	2791
25°	2608	2661	2759
30°	2499	2570	2693
35°	2368	2434	2557
40°	2177	2231	2342
45°	1934	2004	2077
50°	1689	1767	1820
55°	1468	1489	1543
60°	1292	1184	1318
65°	1148	946	1155
70°	1127	840	1065
75°	1232	923	1089
80°	1353	1099	1164
85°	1618	1272	1306



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.8	4.4
10°-20°	280.2	12.4
20°-30°	413.6	18.2
30°-40°	462.9	20.4
40°-50°	406.5	17.9
50°-60°	287.6	12.7
60°-70°	167.4	7.4
70°-80°	104.3	4.6
80°-90°	46.7	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°	792.6	34.9
0°-40°	1255.5	55.4
0°-60°	1949.6	86.0
0°-90°	2268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2268.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1045	1045	1045	1045	1045	
5°	1041	1038	1038	1043	1046	99
15°	985	987	992	1002	1008	277
25°	878	882	896	918	929	403
35°	721	724	741	763	778	448
45°	508	514	527	539	546	393
55°	313	319	317	323	329	283
65°	180	166	149	162	181	183
75°	118	102	89	91	105	124
85°	52	54	41	40	42	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1045.4	1045.4	1045.4	1045.4	1045.4
2.5°	1045.4	1043.3	1042.3	1046.0	1048.1
5°	1040.7	1038.0	1038.0	1043.3	1046.5
7.5°	1032.2	1029.6	1032.7	1037.5	1040.7
10°	1020.1	1019.0	1021.1	1027.5	1031.7
12.5°	1004.2	1004.7	1006.8	1016.9	1022.2
15°	984.6	986.7	991.5	1002.1	1008.4
17.5°	963.5	965.1	972.5	984.6	993.6
20°	938.1	941.3	950.3	965.6	974.6
22.5°	910.1	913.8	924.9	943.4	954.5
25°	878.3	882.0	896.3	917.5	929.1
27.5°	842.4	848.2	864.1	887.3	903.2
30°	804.3	809.1	827.0	853.5	866.7
32.5°	763.6	769.4	786.3	811.7	823.3
35°	720.8	723.9	740.8	763.1	778.4
37.5°	672.1	673.7	689.6	710.2	723.9
40°	619.8	620.8	635.1	654.7	666.8
42.5°	565.3	565.8	581.2	596.0	606.5
45°	508.2	514.0	526.7	539.4	545.7
47.5°	456.9	461.1	472.7	483.9	489.7
50°	403.5	414.0	422.0	427.8	434.7
52.5°	357.5	366.5	368.6	375.4	381.3
55°	313.0	319.4	317.3	323.1	328.9
57.5°	275.5	272.3	265.5	275.5	282.9
60°	240.1	231.6	220.0	233.7	244.8
62.5°	208.3	194.6	180.3	194.1	212.6
65°	180.3	166.0	148.6	161.8	181.4
67.5°	159.2	144.4	123.7	137.0	156.5
70°	143.3	128.0	106.8	117.9	135.4
72.5°	130.6	114.2	95.7	103.1	117.9
75°	118.5	102.1	88.8	91.0	104.7
77.5°	104.2	92.0	81.4	80.4	91.0
80°	87.3	83.6	70.9	69.3	75.1
82.5°	71.9	70.3	58.2	56.6	58.7
85°	52.4	54.5	41.2	40.2	42.3
87.5°	27.5	30.1	21.7	22.7	23.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)