

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: P292327

Luminaire Tested: **22GR-LD5-24-A125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292327  
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-L83050-W2A1-U-3500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2428.0 lumens  
Efficiency: N/A  
Efficacy: 133.9 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

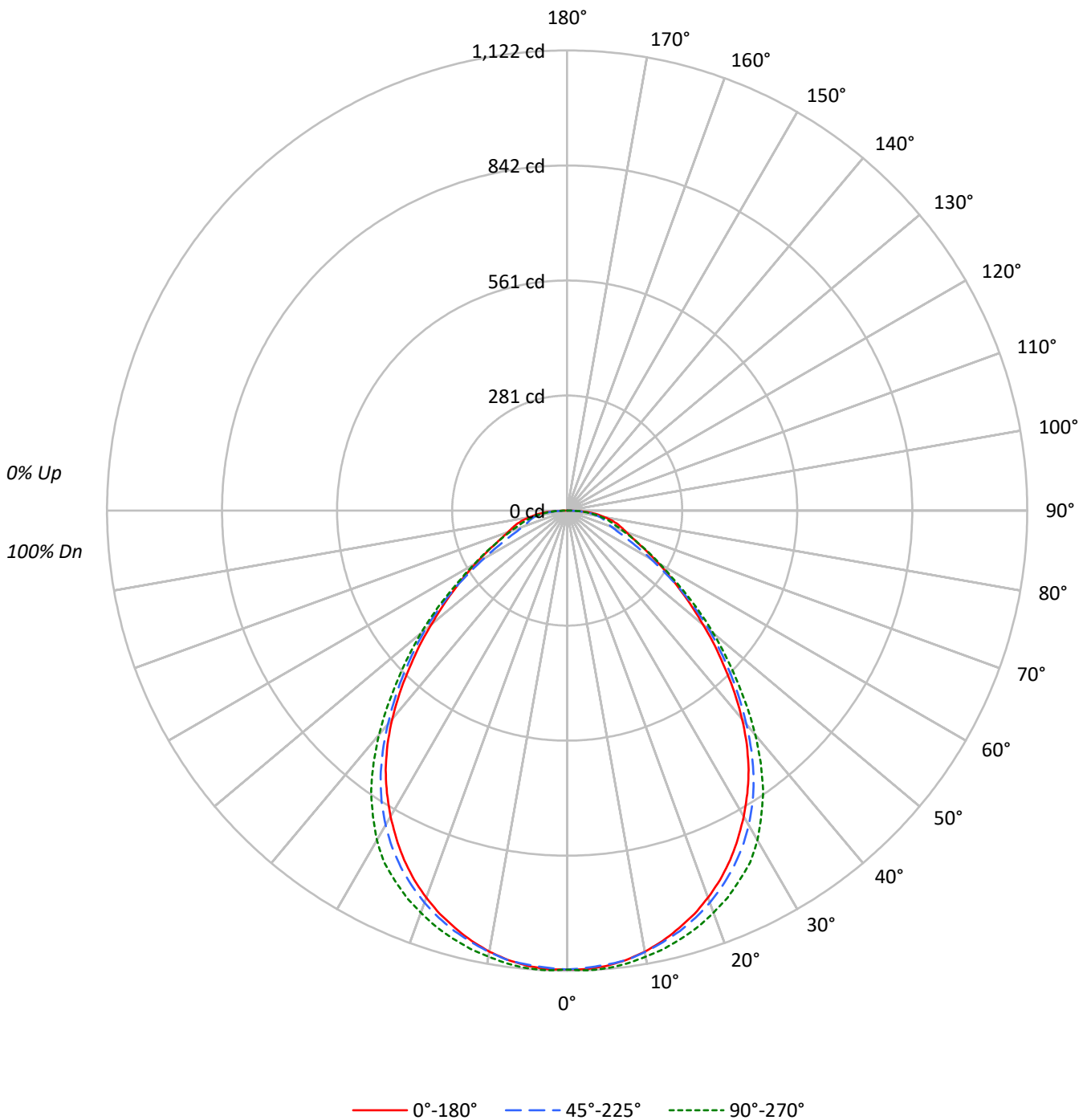
Input Watts (W): 18.135  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3012	3012	3012
5°	3009	3002	3026
10°	2984	2987	3018
15°	2937	2957	3008
20°	2876	2913	2988
25°	2792	2849	2953
30°	2675	2751	2883
35°	2535	2605	2737
40°	2331	2388	2508
45°	2070	2146	2223
50°	1808	1891	1948
55°	1572	1594	1652
60°	1383	1267	1411
65°	1229	1013	1237
70°	1207	900	1140
75°	1318	989	1166
80°	1447	1176	1246
85°	1729	1365	1399



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.8	4.4
10°-20°	300.0	12.4
20°-30°	442.8	18.2
30°-40°	495.5	20.4
40°-50°	435.1	17.9
50°-60°	307.9	12.7
60°-70°	179.2	7.4
70°-80°	111.7	4.6
80°-90°	50.0	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°	848.6	34.9
0°-40°	1344.1	55.4
0°-60°	2087.1	86.0
0°-90°	2428.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2428.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1119	1119	1119	1119	1119	
5°	1114	1111	1111	1117	1120	106
15°	1054	1056	1061	1073	1080	297
25°	940	944	960	982	995	432
35°	772	775	793	817	833	480
45°	544	550	564	577	584	421
55°	335	342	340	346	352	303
65°	193	178	159	173	194	196
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°	1119.2	1119.2	1119.2	1119.2	1119.2
2.5°	1119.2	1116.9	1115.8	1119.8	1122.0
5°	1114.1	1111.3	1111.3	1116.9	1120.3
7.5°	1105.0	1102.2	1105.6	1110.7	1114.1
10°	1092.0	1090.9	1093.1	1099.9	1104.5
12.5°	1075.0	1075.6	1077.9	1088.6	1094.3
15°	1054.1	1056.4	1061.4	1072.8	1079.6
17.5°	1031.4	1033.1	1041.1	1054.1	1063.7
20°	1004.3	1007.7	1017.3	1033.7	1043.3
22.5°	974.3	978.2	990.1	1009.9	1021.8
25°	940.3	944.3	959.5	982.2	994.6
27.5°	901.8	908.0	925.0	949.9	966.9
30°	861.0	866.1	885.4	913.7	927.8
32.5°	817.5	823.7	841.8	869.0	881.4
35°	771.6	775.0	793.1	816.9	833.3
37.5°	719.5	721.2	738.2	760.3	775.0
40°	663.5	664.6	679.9	700.8	713.9
42.5°	605.2	605.7	622.1	638.0	649.3
45°	544.0	550.3	563.8	577.4	584.2
47.5°	489.1	493.6	506.1	518.0	524.2
50°	431.9	443.3	451.8	458.0	465.3
52.5°	382.7	392.3	394.6	401.9	408.2
55°	335.1	341.9	339.7	345.9	352.1
57.5°	294.9	291.5	284.2	294.9	302.9
60°	257.0	248.0	235.5	250.2	262.1
62.5°	223.0	208.3	193.0	207.8	227.6
65°	193.0	177.8	159.1	173.2	194.2
67.5°	170.4	154.5	132.5	146.6	167.6
70°	153.4	137.0	114.4	126.2	144.9
72.5°	139.8	122.3	102.5	110.4	126.2
75°	126.8	109.3	95.1	97.4	112.1
77.5°	111.5	98.5	87.2	86.0	97.4
80°	93.4	89.4	75.9	74.2	80.4
82.5°	77.0	75.3	62.3	60.6	62.8
85°	56.0	58.3	44.2	43.0	45.3
87.5°	29.4	32.3	23.2	24.3	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)