

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: P292370

Luminaire Tested: **22GR-LD5-24-A125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292370  
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-5000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2500.0 lumens  
Efficiency: N/A  
Efficacy: 134.4 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

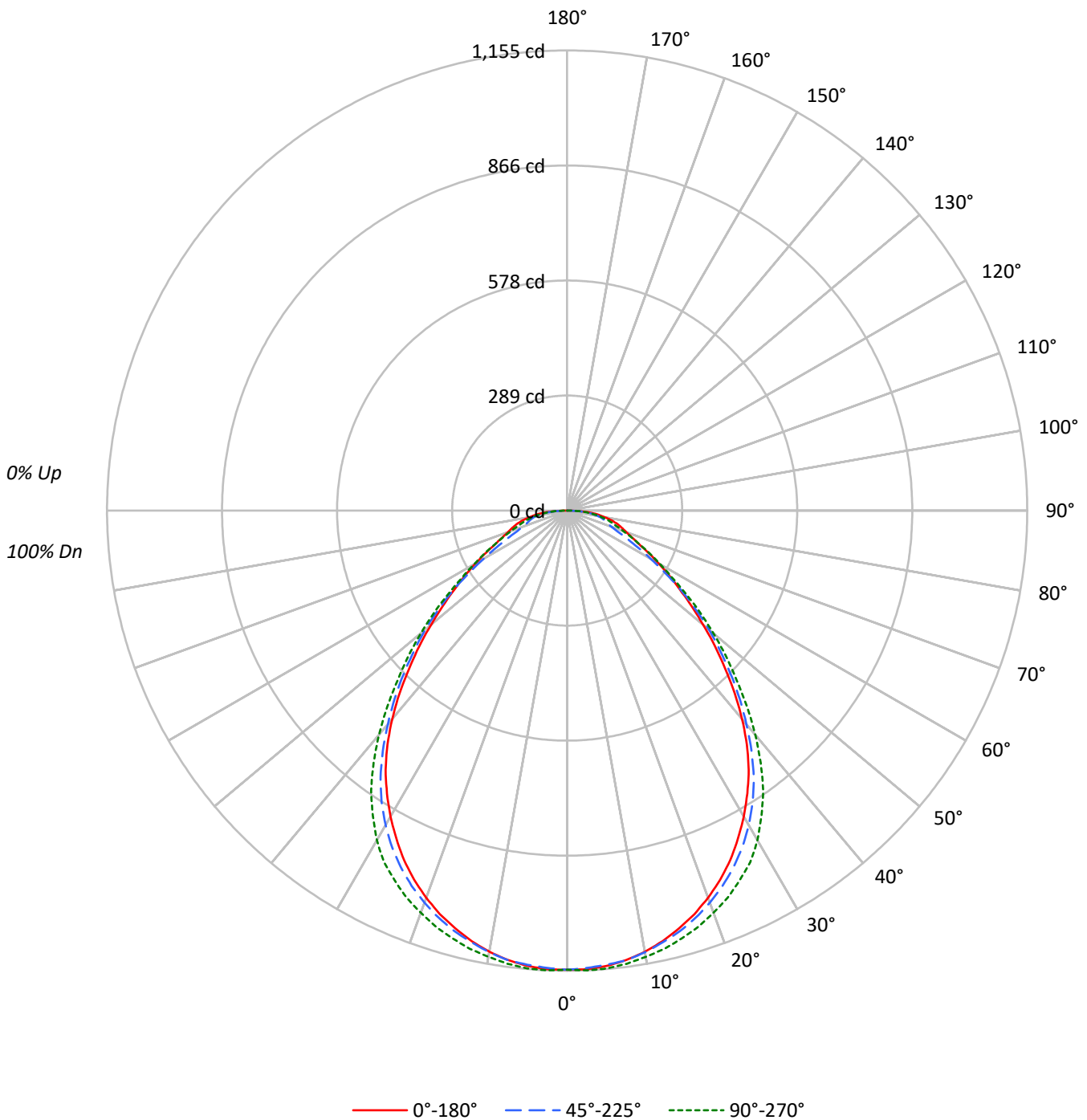
Input Watts (W): 18.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29

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

	0°	45°	90°
0°	3101	3101	3101
5°	3099	3091	3116
10°	3072	3076	3107
15°	3024	3045	3097
20°	2961	3000	3076
25°	2875	2934	3041
30°	2755	2833	2969
35°	2610	2683	2819
40°	2400	2459	2582
45°	2132	2210	2289
50°	1862	1947	2006
55°	1619	1641	1701
60°	1424	1305	1453
65°	1266	1043	1273
70°	1243	926	1174
75°	1358	1018	1200
80°	1491	1210	1283
85°	1782	1405	1439



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.9	4.4
10°-20°	308.9	12.4
20°-30°	456.0	18.2
30°-40°	510.2	20.4
40°-50°	448.0	17.9
50°-60°	317.0	12.7
60°-70°	184.5	7.4
70°-80°	115.0	4.6
80°-90°	51.5	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°	873.7	34.9
0°-40°	1383.9	55.4
0°-60°	2149.0	86.0
0°-90°	2500.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2500.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1152	1152	1152	1152	1152	
5°	1147	1144	1144	1150	1154	109
15°	1085	1088	1093	1105	1112	306
25°	968	972	988	1011	1024	445
35°	794	798	817	841	858	494
45°	560	567	581	594	602	433
55°	345	352	350	356	363	312
65°	199	183	164	178	200	202
75°	131	112	98	100	115	136
85°	58	60	46	44	47	59
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1152.4	1152.4	1152.4	1152.4	1152.4
2.5°	1152.4	1150.0	1148.9	1153.0	1155.3
5°	1147.1	1144.2	1144.2	1150.0	1153.5
7.5°	1137.8	1134.9	1138.4	1143.6	1147.1
10°	1124.4	1123.2	1125.6	1132.6	1137.2
12.5°	1106.9	1107.5	1109.8	1120.9	1126.7
15°	1085.3	1087.7	1092.9	1104.6	1111.6
17.5°	1062.0	1063.8	1071.9	1085.3	1095.3
20°	1034.0	1037.5	1047.5	1064.4	1074.3
22.5°	1003.2	1007.2	1019.5	1039.9	1052.1
25°	968.2	972.3	988.0	1011.3	1024.1
27.5°	928.5	935.0	952.4	978.1	995.6
30°	886.6	891.8	911.6	940.8	955.4
32.5°	841.7	848.1	866.8	894.7	907.6
35°	794.5	798.0	816.6	841.1	858.0
37.5°	740.9	742.6	760.1	782.8	798.0
40°	683.1	684.3	700.1	721.6	735.0
42.5°	623.1	623.7	640.6	656.9	668.6
45°	560.2	566.6	580.6	594.5	601.5
47.5°	503.6	508.3	521.1	533.3	539.8
50°	444.7	456.4	465.1	471.6	479.1
52.5°	394.0	403.9	406.3	413.9	420.3
55°	345.1	352.1	349.7	356.1	362.6
57.5°	303.7	300.2	292.6	303.7	311.8
60°	264.6	255.3	242.5	257.6	269.9
62.5°	229.7	214.5	198.8	213.9	234.3
65°	198.8	183.0	163.8	178.4	199.9
67.5°	175.5	159.1	136.4	151.0	172.5
70°	158.0	141.1	117.7	130.0	149.2
72.5°	144.0	125.9	105.5	113.7	130.0
75°	130.6	112.5	97.9	100.3	115.4
77.5°	114.8	101.4	89.8	88.6	100.3
80°	96.2	92.1	78.1	76.4	82.8
82.5°	79.3	77.5	64.1	62.4	64.7
85°	57.7	60.0	45.5	44.3	46.6
87.5°	30.3	33.2	23.9	25.1	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)