

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: P292466

Luminaire Tested: **22GR-LD5-24-A125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292466  
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-L92765-W2A1-U-4000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2144.9 lumens  
Efficiency: N/A  
Efficacy: 117.1 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

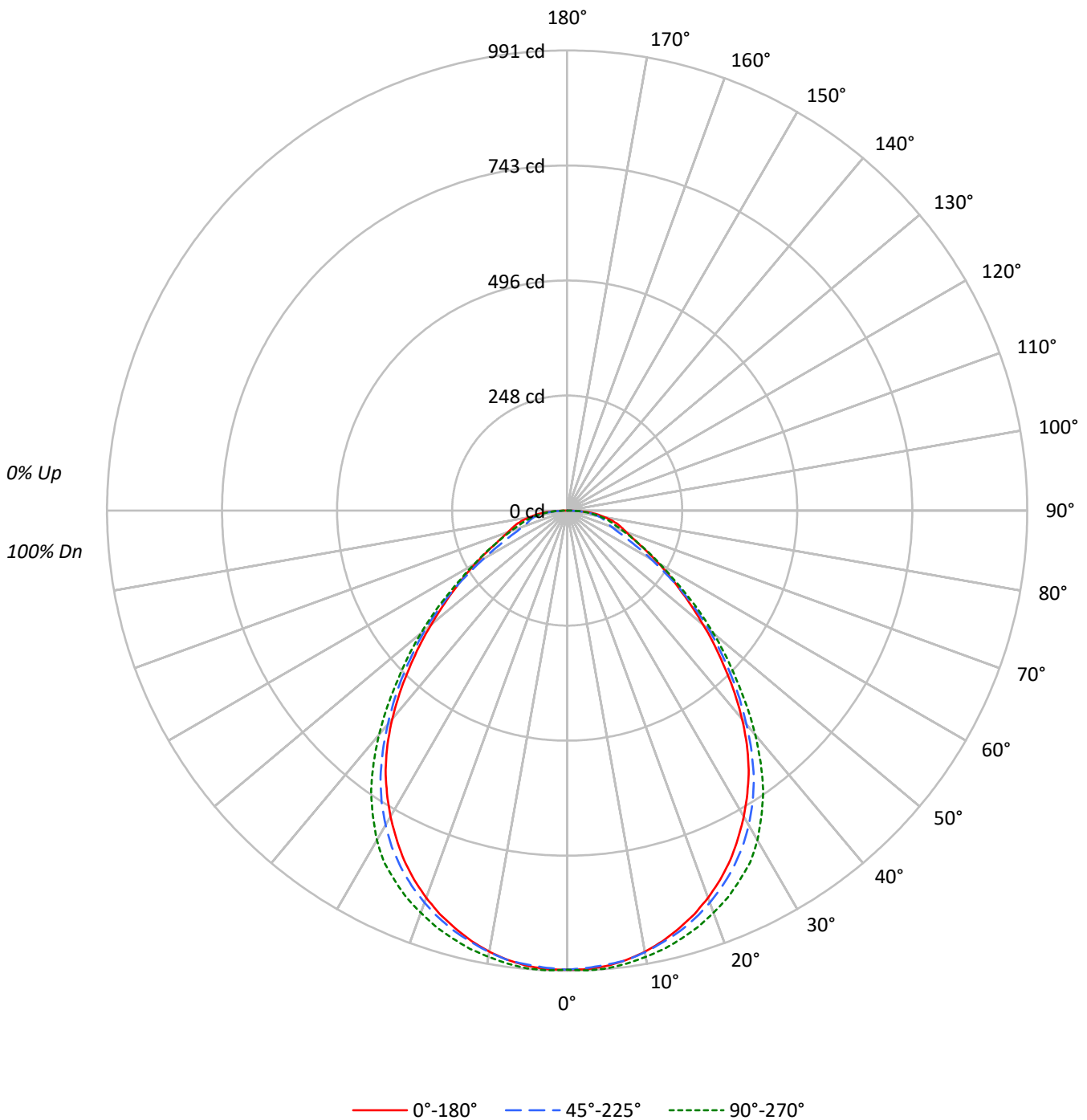
Input Watts (W): 18.321  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31

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

	0°	45°	90°
0°	2661	2661	2661
5°	2659	2652	2673
10°	2636	2639	2666
15°	2594	2612	2657
20°	2541	2574	2639
25°	2466	2517	2609
30°	2364	2431	2547
35°	2239	2302	2418
40°	2059	2110	2216
45°	1829	1896	1964
50°	1598	1671	1721
55°	1389	1408	1460
60°	1222	1120	1246
65°	1086	895	1092
70°	1066	795	1007
75°	1164	873	1029
80°	1278	1038	1100
85°	1528	1204	1235



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.4	4.4
10°-20°	265.0	12.4
20°-30°	391.2	18.2
30°-40°	437.8	20.4
40°-50°	384.4	17.9
50°-60°	272.0	12.7
60°-70°	158.3	7.4
70°-80°	98.6	4.6
80°-90°	44.1	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°	749.6	34.9
0°-40°	1187.4	55.4
0°-60°	1843.9	86.0
0°-90°	2144.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2144.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	989	989	989	989	989	
5°	984	982	982	987	990	93
15°	931	933	938	948	954	262
25°	831	834	848	868	879	382
35°	682	685	701	722	736	424
45°	481	486	498	510	516	372
55°	296	302	300	306	311	268
65°	170	157	140	153	172	173
75°	112	96	84	86	99	117
85°	50	52	39	38	40	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	988.7	988.7	988.7	988.7	988.7
2.5°	988.7	986.7	985.7	989.2	991.2
5°	984.2	981.7	981.7	986.7	989.7
7.5°	976.2	973.7	976.7	981.2	984.2
10°	964.7	963.7	965.7	971.7	975.7
12.5°	949.7	950.2	952.2	961.7	966.7
15°	931.2	933.2	937.7	947.7	953.7
17.5°	911.2	912.7	919.7	931.2	939.7
20°	887.2	890.2	898.7	913.2	921.7
22.5°	860.7	864.2	874.7	892.2	902.7
25°	830.7	834.2	847.7	867.7	878.7
27.5°	796.7	802.2	817.2	839.2	854.2
30°	760.7	765.2	782.2	807.2	819.7
32.5°	722.2	727.7	743.7	767.7	778.7
35°	681.7	684.7	700.7	721.7	736.2
37.5°	635.7	637.2	652.2	671.7	684.7
40°	586.1	587.1	600.6	619.1	630.7
42.5°	534.6	535.1	549.6	563.6	573.6
45°	480.6	486.1	498.1	510.1	516.1
47.5°	432.1	436.1	447.1	457.6	463.1
50°	381.6	391.6	399.1	404.6	411.1
52.5°	338.1	346.6	348.6	355.1	360.6
55°	296.1	302.1	300.1	305.6	311.1
57.5°	260.6	257.6	251.1	260.6	267.6
60°	227.1	219.1	208.1	221.1	231.6
62.5°	197.0	184.0	170.5	183.5	201.0
65°	170.5	157.0	140.5	153.0	171.5
67.5°	150.5	136.5	117.0	129.5	148.0
70°	135.5	121.0	101.0	111.5	128.0
72.5°	123.5	108.0	90.5	97.5	111.5
75°	112.0	96.5	84.0	86.0	99.0
77.5°	98.5	87.0	77.0	76.0	86.0
80°	82.5	79.0	67.0	65.5	71.0
82.5°	68.0	66.5	55.0	53.5	55.5
85°	49.5	51.5	39.0	38.0	40.0
87.5°	26.0	28.5	20.5	21.5	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)