

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: P292171

Luminaire Tested: **22GR-LD5-24-A-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292171  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-24-A-UNV-L82765-W2A1-U-3500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2376.0 lumens  
Efficiency: N/A  
Efficacy: 130.3 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

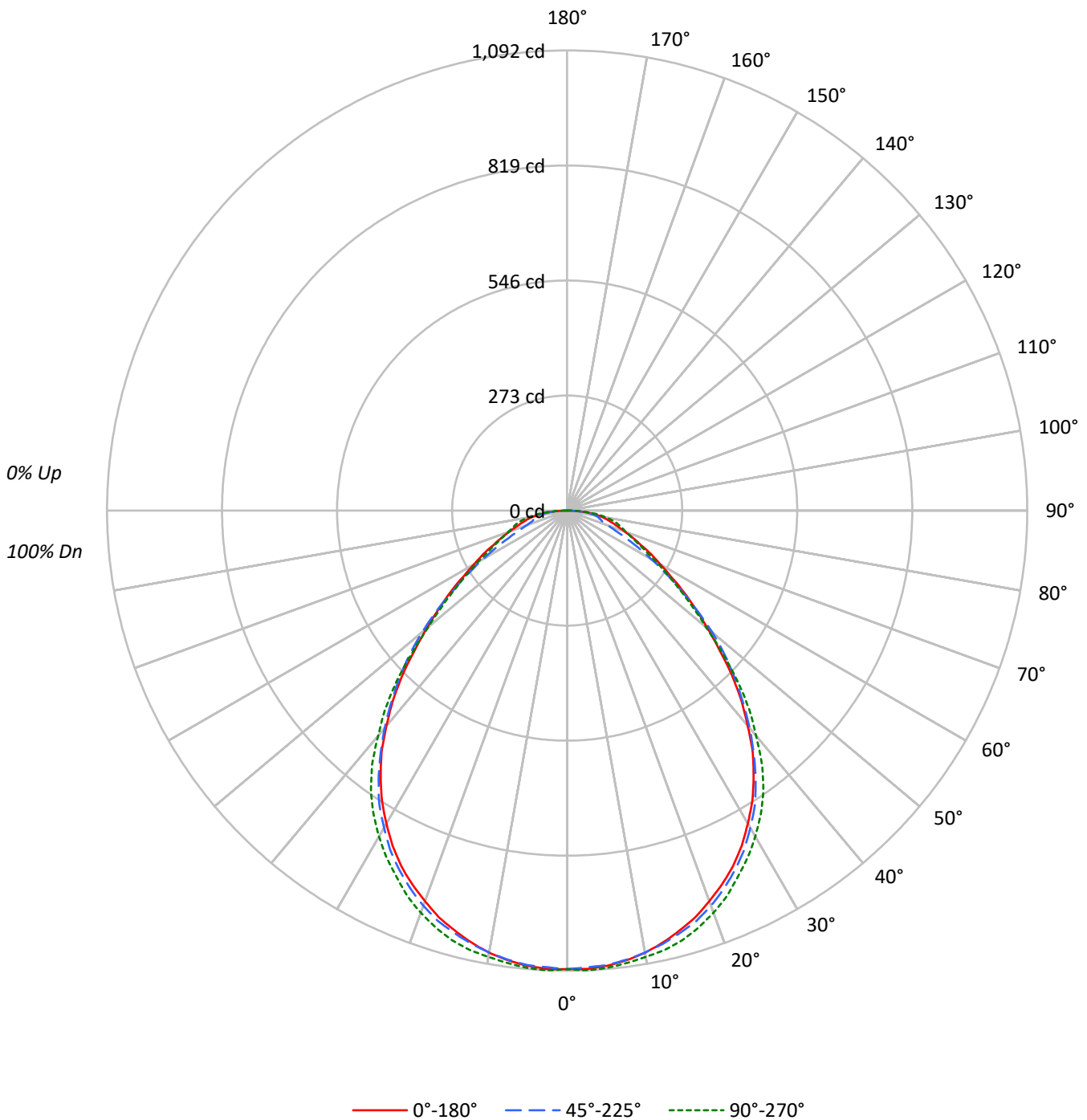
Input Watts (W): 18.228  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	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	53	46	42	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	35	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	30

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

	0°	45°	90°
0°	2928	2928	2928
5°	2929	2924	2942
10°	2911	2910	2939
15°	2874	2890	2941
20°	2825	2858	2909
25°	2765	2796	2847
30°	2665	2701	2774
35°	2534	2563	2666
40°	2342	2368	2451
45°	2104	2142	2176
50°	1819	1884	1801
55°	1588	1546	1525
60°	1375	1238	1321
65°	1229	972	1186
70°	1140	805	1170
75°	1138	850	1300
80°	1260	1071	1464
85°	1315	1161	1655



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.0	4.3
10°-20°	293.3	12.3
20°-30°	433.7	18.3
30°-40°	489.5	20.6
40°-50°	431.5	18.2
50°-60°	296.0	12.5
60°-70°	174.7	7.4
70°-80°	109.0	4.6
80°-90°	45.4	1.9
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°	830.0	34.9
0°-40°	1319.4	55.5
0°-60°	2046.9	86.1
0°-90°	2376.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2376.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1088	1088	1088	1088	1088	
5°	1084	1082	1083	1086	1089	103
15°	1032	1033	1037	1050	1056	291
25°	931	934	942	954	959	428
35°	771	778	780	799	812	481
45°	553	556	563	566	572	425
55°	338	330	330	318	325	304
65°	193	170	153	176	186	194
75°	110	98	82	114	125	117
85°	43	40	38	49	54	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1088.1	1088.1	1088.1	1088.1	1088.1
2.5°	1088.7	1085.9	1084.8	1089.2	1092.0
5°	1084.3	1082.0	1082.6	1086.5	1089.2
7.5°	1076.5	1074.9	1074.9	1080.4	1083.1
10°	1065.5	1064.9	1064.9	1071.5	1075.4
12.5°	1050.0	1050.5	1052.7	1061.6	1068.2
15°	1031.7	1032.8	1037.3	1050.0	1055.5
17.5°	1011.8	1011.8	1020.7	1030.6	1037.3
20°	986.4	988.0	998.0	1009.1	1015.7
22.5°	960.4	963.2	971.5	984.2	990.3
25°	931.1	934.4	941.6	953.8	958.7
27.5°	896.8	901.2	909.0	917.8	928.3
30°	857.6	864.2	869.2	881.3	892.9
32.5°	817.8	823.8	829.4	842.1	855.3
35°	771.3	777.9	780.2	799.0	811.7
37.5°	723.8	726.5	727.6	746.4	760.2
40°	666.8	672.3	674.0	688.9	697.8
42.5°	612.1	614.3	617.6	628.7	639.2
45°	552.9	555.7	562.9	566.2	571.7
47.5°	491.0	499.3	507.6	497.1	497.6
50°	434.6	441.2	450.1	430.2	430.2
52.5°	384.3	387.6	388.1	371.6	374.9
55°	338.4	330.1	329.5	318.5	325.1
57.5°	292.5	281.4	277.6	274.2	282.0
60°	255.4	235.5	230.0	235.0	245.5
62.5°	225.0	199.6	189.1	201.8	211.2
65°	193.0	169.7	152.6	176.4	186.3
67.5°	168.1	146.0	123.9	157.6	164.8
70°	144.9	127.7	102.3	143.2	148.7
72.5°	126.1	112.8	88.5	129.4	136.0
75°	109.5	98.4	81.8	114.5	125.0
77.5°	96.2	84.0	76.3	99.0	111.7
80°	81.3	69.1	69.1	82.9	94.5
82.5°	64.1	54.2	55.8	67.5	75.7
85°	42.6	39.8	37.6	49.2	53.6
87.5°	21.6	22.1	19.9	25.4	26.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)