

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: P292272

Luminaire Tested: **22GR-LD5-24-A-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292272  
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-L92765-W2A1-U-5000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2249.0 lumens  
Efficiency: N/A  
Efficacy: 120.9 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

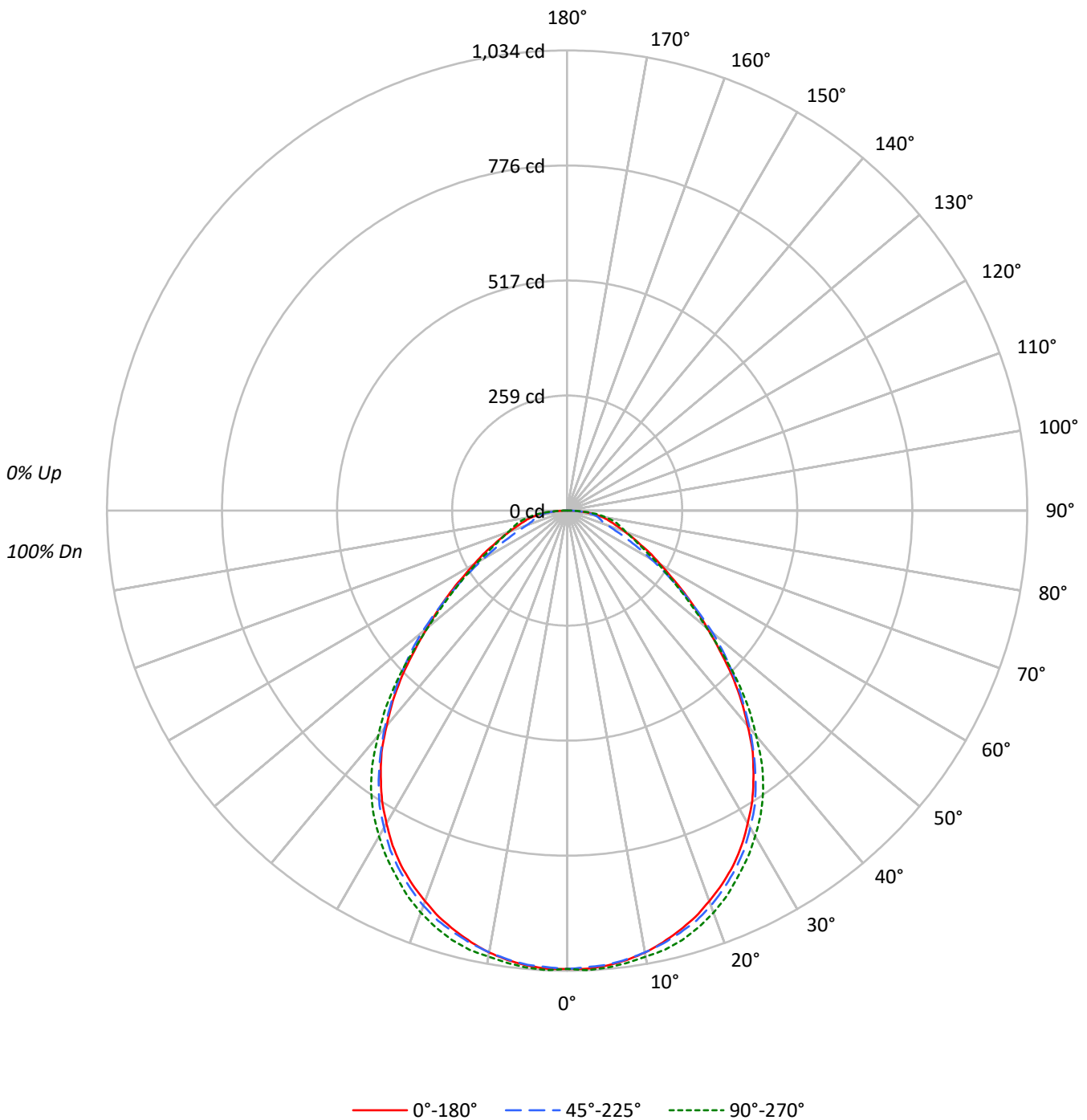
Input Watts (W): 18.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2772	2772	2772
5°	2772	2768	2785
10°	2756	2754	2781
15°	2721	2735	2783
20°	2674	2705	2753
25°	2617	2646	2695
30°	2522	2556	2626
35°	2398	2426	2524
40°	2217	2241	2320
45°	1992	2028	2059
50°	1722	1783	1705
55°	1503	1463	1444
60°	1301	1172	1251
65°	1163	919	1123
70°	1079	762	1108
75°	1077	806	1230
80°	1192	1013	1387
85°	1244	1099	1568



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.5	4.3
10°-20°	277.6	12.3
20°-30°	410.6	18.3
30°-40°	463.3	20.6
40°-50°	408.4	18.2
50°-60°	280.2	12.5
60°-70°	165.3	7.4
70°-80°	103.2	4.6
80°-90°	43.0	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°	785.6	34.9
0°-40°	1248.9	55.5
0°-60°	1937.5	86.1
0°-90°	2249.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2249.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1030	1030	1030	1030	1030	
5°	1026	1024	1025	1028	1031	97
15°	977	978	982	994	999	275
25°	881	884	891	903	908	405
35°	730	736	738	756	768	455
45°	523	526	533	536	541	402
55°	320	312	312	302	308	287
65°	183	161	144	167	176	184
75°	104	93	78	108	118	111
85°	40	38	36	47	51	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1030.0	1030.0	1030.0	1030.0	1030.0
2.5°	1030.5	1027.9	1026.8	1031.0	1033.6
5°	1026.3	1024.2	1024.7	1028.4	1031.0
7.5°	1019.0	1017.4	1017.4	1022.6	1025.3
10°	1008.5	1008.0	1008.0	1014.3	1017.9
12.5°	993.8	994.4	996.5	1004.8	1011.1
15°	976.6	977.6	981.8	993.8	999.1
17.5°	957.7	957.7	966.1	975.5	981.8
20°	933.7	935.2	944.7	955.1	961.4
22.5°	909.1	911.7	919.5	931.6	937.3
25°	881.3	884.5	891.3	902.8	907.5
27.5°	848.9	853.1	860.4	868.8	878.7
30°	811.7	818.0	822.7	834.2	845.2
32.5°	774.0	779.8	785.0	797.1	809.6
35°	730.1	736.4	738.5	756.2	768.3
37.5°	685.1	687.7	688.7	706.5	719.6
40°	631.2	636.4	638.0	652.1	660.5
42.5°	579.4	581.4	584.6	595.1	605.0
45°	523.4	526.0	532.8	535.9	541.1
47.5°	464.7	472.6	480.4	470.5	471.0
50°	411.4	417.6	426.0	407.2	407.2
52.5°	363.7	366.9	367.4	351.7	354.8
55°	320.3	312.4	311.9	301.5	307.7
57.5°	276.9	266.4	262.7	259.6	266.9
60°	241.8	222.9	217.7	222.4	232.4
62.5°	213.0	188.9	179.0	191.0	199.9
65°	182.7	160.7	144.4	166.9	176.4
67.5°	159.1	138.2	117.2	149.2	156.0
70°	137.1	120.9	96.8	135.5	140.8
72.5°	119.3	106.8	83.7	122.5	128.7
75°	103.6	93.2	77.5	108.3	118.3
77.5°	91.1	79.5	72.2	93.7	105.7
80°	76.9	65.4	65.4	78.5	89.5
82.5°	60.7	51.3	52.9	63.8	71.7
85°	40.3	37.7	35.6	46.6	50.8
87.5°	20.4	20.9	18.8	24.1	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)