

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: P292264

Luminaire Tested: **22GR-LD5-20-A-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292264  
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-LD5-20-A-UNV-L92765-W2A1-U-5500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1946.0 lumens  
Efficiency: N/A  
Efficacy: 122.4 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

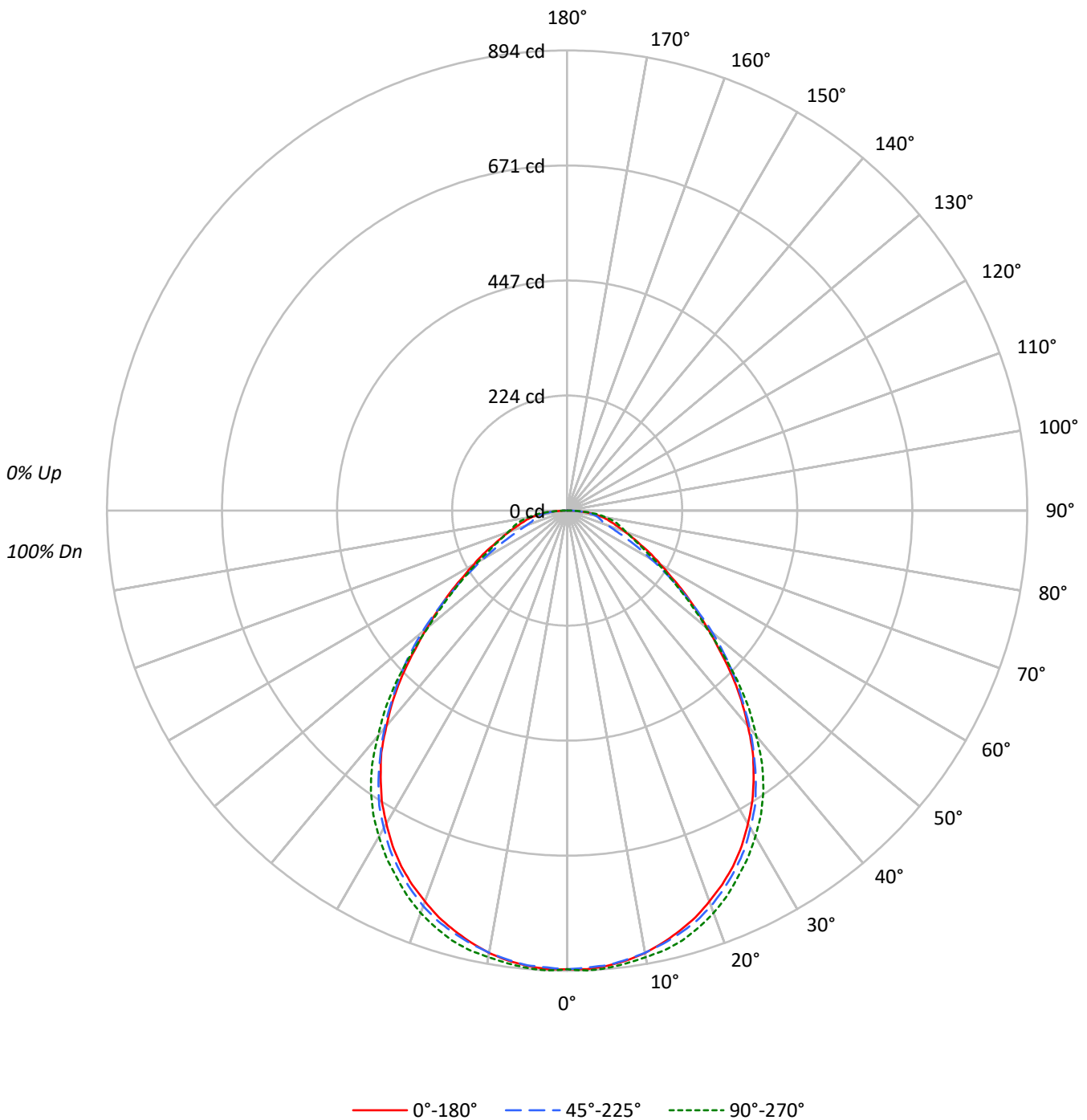
Input Watts (W): 15.903  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2398	2398	2398
5°	2399	2395	2410
10°	2384	2383	2407
15°	2354	2367	2408
20°	2314	2341	2382
25°	2264	2290	2331
30°	2183	2212	2272
35°	2075	2099	2184
40°	1918	1939	2008
45°	1723	1754	1782
50°	1490	1543	1475
55°	1300	1266	1249
60°	1126	1014	1082
65°	1006	796	972
70°	933	659	958
75°	933	697	1064
80°	1032	877	1199
85°	1078	951	1355



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.3	4.3
10°-20°	240.2	12.3
20°-30°	355.2	18.3
30°-40°	400.9	20.6
40°-50°	353.4	18.2
50°-60°	242.4	12.5
60°-70°	143.1	7.4
70°-80°	89.3	4.6
80°-90°	37.2	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°	679.8	34.9
0°-40°	1080.7	55.5
0°-60°	1676.5	86.1
0°-90°	1946.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1946.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	891	891	891	891	891	
5°	888	886	887	890	892	84
15°	845	846	850	860	864	238
25°	763	765	771	781	785	350
35°	632	637	639	654	665	394
45°	453	455	461	464	468	348
55°	277	270	270	261	266	249
65°	158	139	125	144	153	159
75°	90	81	67	94	102	96
85°	35	33	31	40	44	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	891.2	891.2	891.2	891.2	891.2
2.5°	891.7	889.4	888.5	892.1	894.4
5°	888.0	886.2	886.7	889.8	892.1
7.5°	881.7	880.3	880.3	884.9	887.1
10°	872.6	872.2	872.2	877.6	880.8
12.5°	860.0	860.4	862.2	869.5	874.9
15°	845.0	845.9	849.5	860.0	864.5
17.5°	828.7	828.7	836.0	844.1	849.5
20°	807.9	809.2	817.4	826.4	831.9
22.5°	786.6	788.9	795.6	806.1	811.0
25°	762.6	765.3	771.2	781.2	785.2
27.5°	734.5	738.1	744.5	751.7	760.3
30°	702.4	707.8	711.9	721.8	731.3
32.5°	669.8	674.7	679.3	689.7	700.6
35°	631.7	637.2	639.0	654.4	664.8
37.5°	592.8	595.0	595.9	611.3	622.7
40°	546.1	550.7	552.0	564.2	571.5
42.5°	501.3	503.1	505.8	514.9	523.5
45°	452.8	455.1	461.0	463.7	468.2
47.5°	402.1	408.9	415.7	407.1	407.6
50°	355.9	361.4	368.6	352.3	352.3
52.5°	314.7	317.4	317.9	304.3	307.0
55°	277.1	270.3	269.9	260.8	266.3
57.5°	239.6	230.5	227.3	224.6	231.0
60°	209.2	192.9	188.4	192.5	201.1
62.5°	184.3	163.5	154.9	165.3	173.0
65°	158.0	139.0	125.0	144.5	152.6
67.5°	137.7	119.6	101.4	129.1	134.9
70°	118.6	104.6	83.8	117.3	121.8
72.5°	103.2	92.4	72.5	106.0	111.4
75°	89.7	80.6	67.0	93.7	102.3
77.5°	78.8	68.8	62.5	81.1	91.5
80°	66.6	56.6	56.6	67.9	77.4
82.5°	52.5	44.4	45.7	55.2	62.0
85°	34.9	32.6	30.8	40.3	43.9
87.5°	17.7	18.1	16.3	20.8	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)