

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: P292285

Luminaire Tested: **22GR-LD5-32-A-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292285  
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-LD5-32-A-UNV-L92765-W2A1-U-2700K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2518.0 lumens  
Efficiency: N/A  
Efficacy: 102.9 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

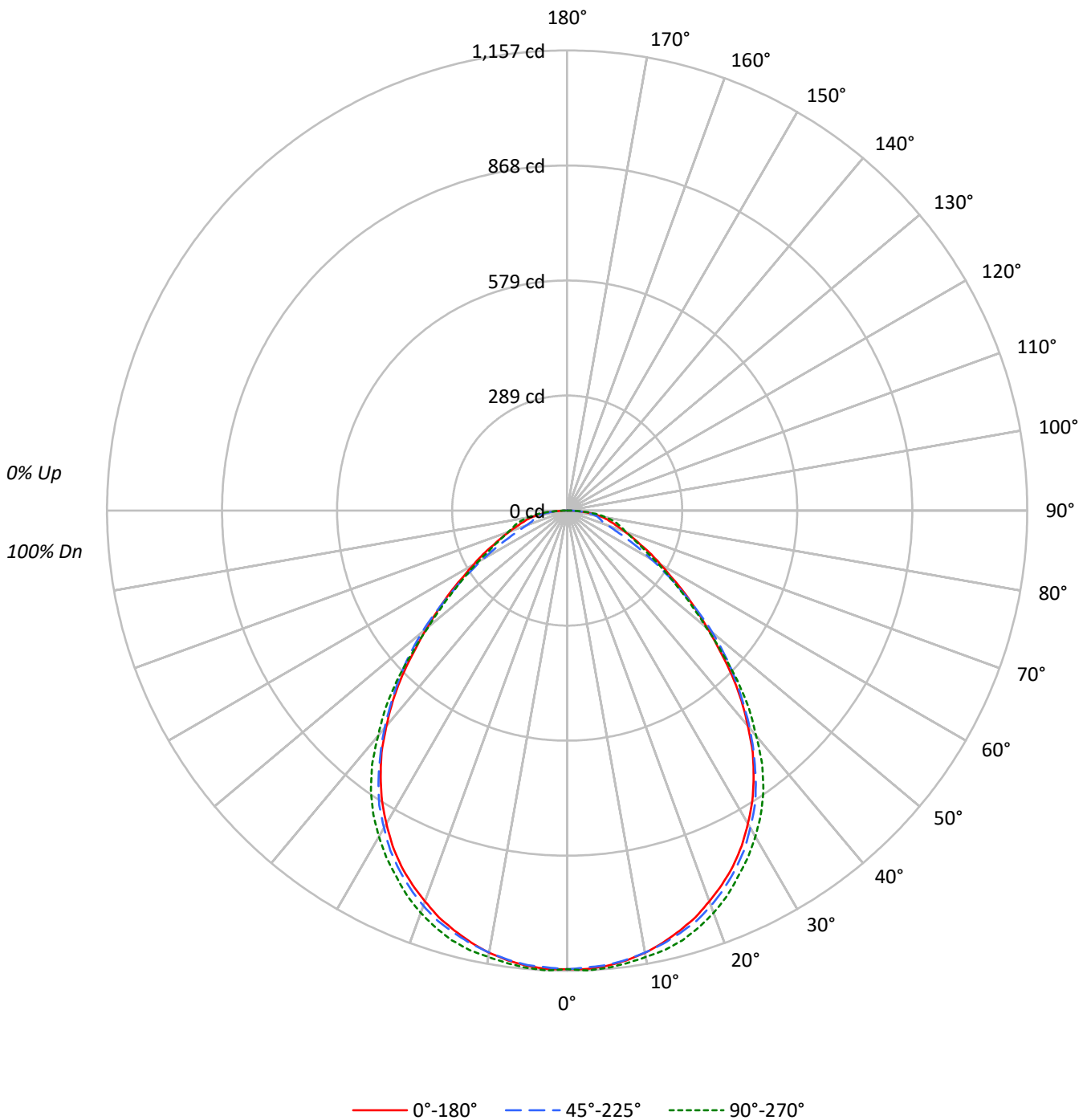
Input Watts (W): 24.459  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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													100															
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86													86															
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74													74															
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64													64															
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56													56															
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49													49															
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44													44															
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39													39															
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36													36															
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32													32															
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30													30															

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

	0°	45°	90°
0°	3103	3103	3103
5°	3104	3099	3118
10°	3085	3084	3114
15°	3046	3062	3116
20°	2993	3029	3082
25°	2930	2963	3017
30°	2824	2862	2940
35°	2685	2716	2826
40°	2483	2509	2598
45°	2230	2270	2306
50°	1928	1997	1909
55°	1682	1638	1616
60°	1457	1312	1400
65°	1302	1030	1258
70°	1208	853	1240
75°	1206	901	1377
80°	1334	1134	1553
85°	1392	1229	1754



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.1	4.3
10°-20°	310.8	12.3
20°-30°	459.7	18.3
30°-40°	518.7	20.6
40°-50°	457.3	18.2
50°-60°	313.7	12.5
60°-70°	185.1	7.4
70°-80°	115.5	4.6
80°-90°	48.2	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°	879.6	34.9
0°-40°	1398.3	55.5
0°-60°	2169.2	86.1
0°-90°	2518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2518.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1153	1153	1153	1153	1153	
5°	1149	1147	1147	1151	1154	109
15°	1093	1095	1099	1113	1119	308
25°	987	990	998	1011	1016	453
35°	817	824	827	847	860	509
45°	586	589	596	600	606	450
55°	359	350	349	338	344	322
65°	204	180	162	187	198	206
75°	116	104	87	121	132	124
85°	45	42	40	52	57	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1153.2	1153.2	1153.2	1153.2	1153.2
2.5°	1153.7	1150.8	1149.6	1154.3	1157.3
5°	1149.1	1146.7	1147.3	1151.4	1154.3
7.5°	1140.8	1139.1	1139.1	1144.9	1147.9
10°	1129.1	1128.5	1128.5	1135.6	1139.7
12.5°	1112.7	1113.3	1115.7	1125.0	1132.1
15°	1093.4	1094.6	1099.2	1112.7	1118.6
17.5°	1072.3	1072.3	1081.7	1092.2	1099.2
20°	1045.3	1047.1	1057.6	1069.4	1076.4
22.5°	1017.8	1020.7	1029.5	1043.0	1049.4
25°	986.7	990.3	997.9	1010.8	1016.0
27.5°	950.4	955.1	963.3	972.7	983.8
30°	908.8	915.8	921.1	934.0	946.3
32.5°	866.6	873.1	878.9	892.4	906.5
35°	817.4	824.4	826.8	846.7	860.2
37.5°	767.0	769.9	771.1	791.0	805.7
40°	706.7	712.5	714.3	730.1	739.5
42.5°	648.6	651.0	654.5	666.2	677.4
45°	586.0	588.9	596.5	600.0	605.9
47.5°	520.3	529.1	537.9	526.8	527.4
50°	460.6	467.6	477.0	455.9	455.9
52.5°	407.2	410.8	411.3	393.8	397.3
55°	358.6	349.8	349.2	337.5	344.5
57.5°	310.0	298.2	294.1	290.6	298.8
60°	270.7	249.6	243.8	249.0	260.2
62.5°	238.5	211.5	200.4	213.9	223.8
65°	204.5	179.9	161.7	186.9	197.5
67.5°	178.1	154.7	131.3	167.0	174.6
70°	153.5	135.4	108.4	151.8	157.6
72.5°	133.6	119.5	93.8	137.1	144.1
75°	116.0	104.3	86.7	121.3	132.4
77.5°	102.0	89.1	80.9	104.9	118.4
80°	86.1	73.2	73.2	87.9	100.2
82.5°	68.0	57.4	59.2	71.5	80.3
85°	45.1	42.2	39.8	52.1	56.8
87.5°	22.9	23.4	21.1	27.0	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)