

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: P292288

Luminaire Tested: **22GR-LD5-32-A-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292288  
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-4000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2838.0 lumens  
Efficiency: N/A  
Efficacy: 114.3 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

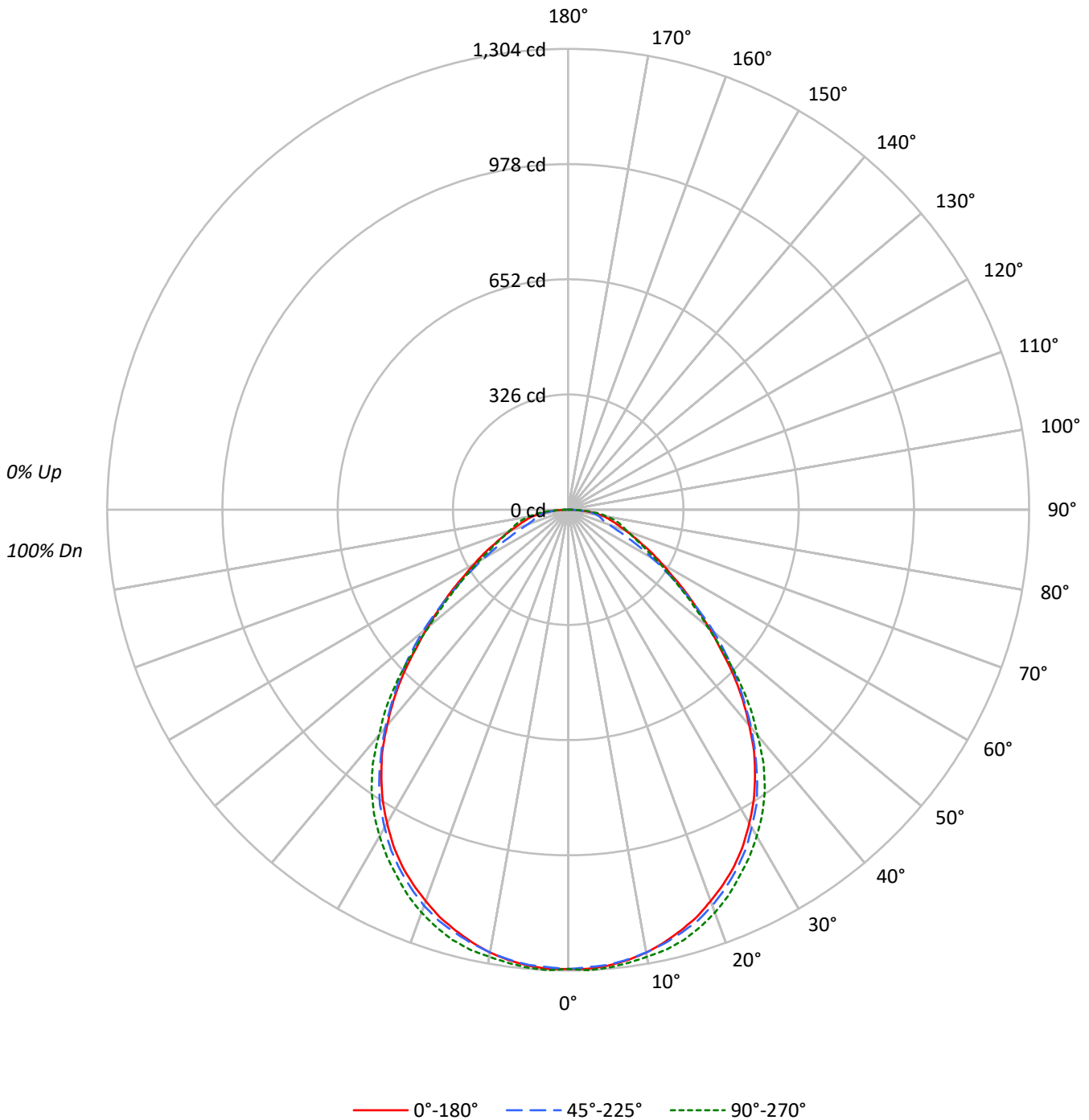
Input Watts (W): 24.831  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3497	3497	3497
5°	3498	3493	3514
10°	3477	3476	3510
15°	3433	3451	3512
20°	3374	3414	3474
25°	3302	3339	3400
30°	3183	3226	3314
35°	3027	3061	3185
40°	2798	2828	2928
45°	2513	2559	2599
50°	2173	2251	2151
55°	1896	1847	1822
60°	1642	1478	1578
65°	1468	1161	1417
70°	1361	961	1398
75°	1360	1016	1552
80°	1505	1280	1750
85°	1572	1386	1979



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.0	4.3
10°-20°	350.3	12.3
20°-30°	518.1	18.3
30°-40°	584.6	20.6
40°-50°	515.4	18.2
50°-60°	353.6	12.5
60°-70°	208.6	7.4
70°-80°	130.2	4.6
80°-90°	54.3	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°	991.4	34.9
0°-40°	1576.0	55.5
0°-60°	2444.9	86.1
0°-90°	2838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2838.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1300	1300	1300	1300	1300	
5°	1295	1292	1293	1298	1301	123
15°	1232	1234	1239	1254	1261	347
25°	1112	1116	1125	1139	1145	511
35°	921	929	932	954	970	574
45°	660	664	672	676	683	507
55°	404	394	394	380	388	363
65°	230	203	182	211	223	232
75°	131	118	98	137	149	140
85°	51	48	45	59	64	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1299.7	1299.7	1299.7	1299.7	1299.7
2.5°	1300.4	1297.1	1295.7	1301.0	1304.3
5°	1295.1	1292.4	1293.1	1297.7	1301.0
7.5°	1285.8	1283.9	1283.9	1290.5	1293.8
10°	1272.6	1272.0	1272.0	1279.9	1284.5
12.5°	1254.1	1254.8	1257.4	1268.0	1275.9
15°	1232.3	1233.7	1238.9	1254.1	1260.7
17.5°	1208.6	1208.6	1219.1	1231.0	1238.9
20°	1178.2	1180.2	1192.1	1205.3	1213.2
22.5°	1147.1	1150.4	1160.4	1175.5	1182.8
25°	1112.1	1116.1	1124.7	1139.2	1145.2
27.5°	1071.2	1076.5	1085.7	1096.3	1108.8
30°	1024.3	1032.2	1038.2	1052.7	1066.6
32.5°	976.8	984.0	990.6	1005.8	1021.7
35°	921.3	929.2	931.8	954.3	969.5
37.5°	864.5	867.8	869.1	891.6	908.1
40°	796.5	803.1	805.0	822.9	833.4
42.5°	731.1	733.7	737.7	750.9	763.4
45°	660.4	663.7	672.3	676.3	682.9
47.5°	586.5	596.4	606.3	593.7	594.4
50°	519.1	527.0	537.6	513.8	513.8
52.5°	459.0	463.0	463.6	443.8	447.8
55°	404.2	394.3	393.6	380.4	388.3
57.5°	349.4	336.2	331.5	327.6	336.8
60°	305.1	281.3	274.7	280.7	293.2
62.5°	268.8	238.4	225.9	241.1	252.3
65°	230.5	202.7	182.3	210.7	222.6
67.5°	200.8	174.4	147.9	188.2	196.8
70°	173.0	152.6	122.2	171.0	177.7
72.5°	150.6	134.7	105.7	154.5	162.5
75°	130.8	117.6	97.7	136.7	149.3
77.5°	114.9	100.4	91.1	118.2	133.4
80°	97.1	82.6	82.6	99.1	112.9
82.5°	76.6	64.7	66.7	80.6	90.5
85°	50.9	47.6	44.9	58.8	64.1
87.5°	25.8	26.4	23.8	30.4	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)