

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: P292487

Luminaire Tested: **22GR-LD5-32-A125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-32-A125-UNV-L92765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3011.0 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

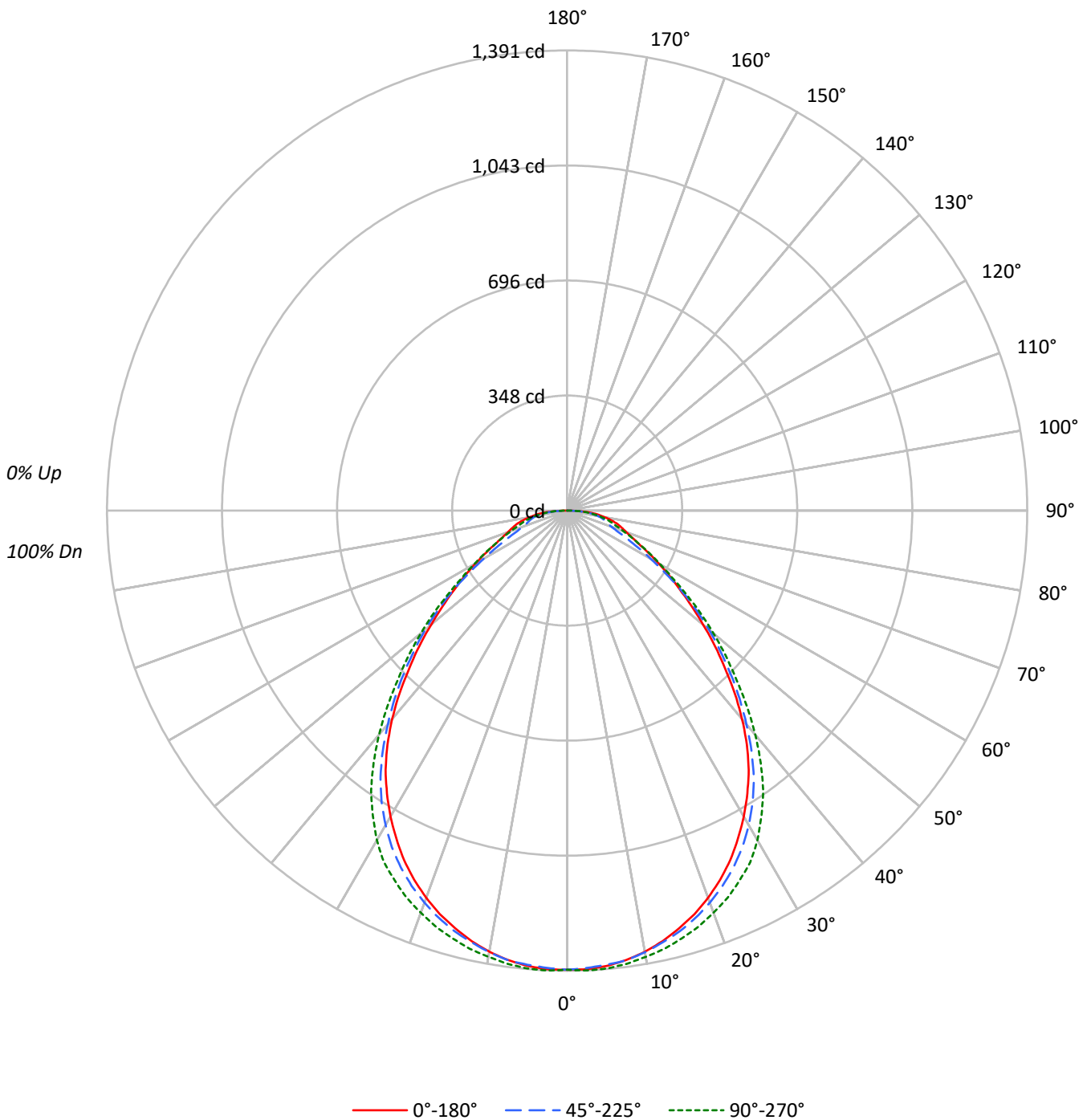
Input Watts (W): 25.203
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88					86				
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76					74				
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66					64				
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58					56				
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51					49				
6	74	61	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	52	46	41	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	34	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					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3735	3735	3735
5°	3732	3723	3753
10°	3700	3704	3743
15°	3642	3667	3730
20°	3566	3613	3705
25°	3462	3533	3662
30°	3318	3412	3575
35°	3143	3231	3395
40°	2890	2962	3110
45°	2568	2661	2757
50°	2243	2345	2416
55°	1950	1976	2049
60°	1715	1572	1749
65°	1524	1256	1533
70°	1497	1116	1414
75°	1635	1226	1445
80°	1795	1458	1545
85°	2146	1692	1735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.2	4.4
10°-20°	372.0	12.4
20°-30°	549.2	18.2
30°-40°	614.5	20.4
40°-50°	539.6	17.9
50°-60°	381.8	12.7
60°-70°	222.2	7.4
70°-80°	138.5	4.6
80°-90°	62.0	2.1
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°	1052.3	34.9
0°-40°	1666.8	55.4
0°-60°	2588.3	86.0
0°-90°	3011.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3011.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1388	1388	1388	1388	1388	
5°	1382	1378	1378	1385	1389	131
15°	1307	1310	1316	1330	1339	368
25°	1166	1171	1190	1218	1234	536
35°	957	961	984	1013	1033	595
45°	675	682	699	716	724	522
55°	416	424	421	429	437	376
65°	239	220	197	215	241	243
75°	157	136	118	121	139	164
85°	70	72	55	53	56	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1387.9	1387.9	1387.9	1387.9	<i>1387.9</i>
2.5°	<i>1387.9</i>	<i>1385.1</i>	<i>1383.7</i>	<i>1388.6</i>	<i>1391.4</i>
5°	1381.6	1378.1	1378.1	1385.1	<i>1389.3</i>
7.5°	1370.4	1366.9	1371.1	1377.4	<i>1381.6</i>
10°	1354.2	1352.8	1355.6	1364.1	<i>1369.7</i>
12.5°	1333.2	1333.9	1336.7	1350.0	<i>1357.0</i>
15°	1307.2	1310.0	1316.3	1330.4	<i>1338.8</i>
17.5°	1279.1	1281.2	1291.0	1307.2	<i>1319.1</i>
20°	1245.4	1249.6	1261.6	1281.9	<i>1293.8</i>
22.5°	1208.2	1213.1	1227.9	1252.4	<i>1267.2</i>
25°	1166.1	1171.0	1189.9	1218.0	<i>1233.5</i>
27.5°	1118.3	1126.1	1147.1	1178.0	<i>1199.1</i>
30°	1067.8	1074.1	1098.0	1133.1	<i>1150.6</i>
32.5°	1013.7	1021.5	1043.9	1077.6	<i>1093.1</i>
35°	956.9	961.1	983.6	1013.0	<i>1033.4</i>
37.5°	892.3	894.4	915.5	942.8	<i>961.1</i>
40°	822.8	824.2	843.1	869.1	<i>885.3</i>
42.5°	750.5	751.2	771.5	791.2	<i>805.2</i>
45°	674.7	682.4	699.2	716.1	<i>724.5</i>
47.5°	606.6	612.2	627.6	642.4	<i>650.1</i>
50°	535.7	549.7	560.2	567.9	<i>577.1</i>
52.5°	474.6	486.5	489.3	498.4	<i>506.2</i>
55°	415.6	424.0	421.2	428.9	<i>436.7</i>
57.5°	365.8	361.5	352.4	365.8	<i>375.6</i>
60°	318.7	307.5	292.0	310.3	<i>325.0</i>
62.5°	276.6	258.3	239.4	257.6	<i>282.2</i>
65°	239.4	220.4	197.3	214.8	<i>240.8</i>
67.5°	211.3	191.7	164.3	181.8	<i>207.8</i>
70°	190.3	169.9	141.8	156.6	<i>179.7</i>
72.5°	173.4	151.6	127.1	136.9	<i>156.6</i>
75°	157.3	135.5	117.9	120.7	<i>139.0</i>
77.5°	138.3	122.2	108.1	106.7	<i>120.7</i>
80°	115.8	110.9	94.1	92.0	<i>99.7</i>
82.5°	95.5	93.4	77.2	75.1	<i>77.9</i>
85°	69.5	72.3	54.8	53.4	<i>56.2</i>
87.5°	36.5	40.0	28.8	30.2	<i>30.9</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)