

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: P292488

Luminaire Tested: **22GR-LD5-32-A125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292488
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-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3024.0 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

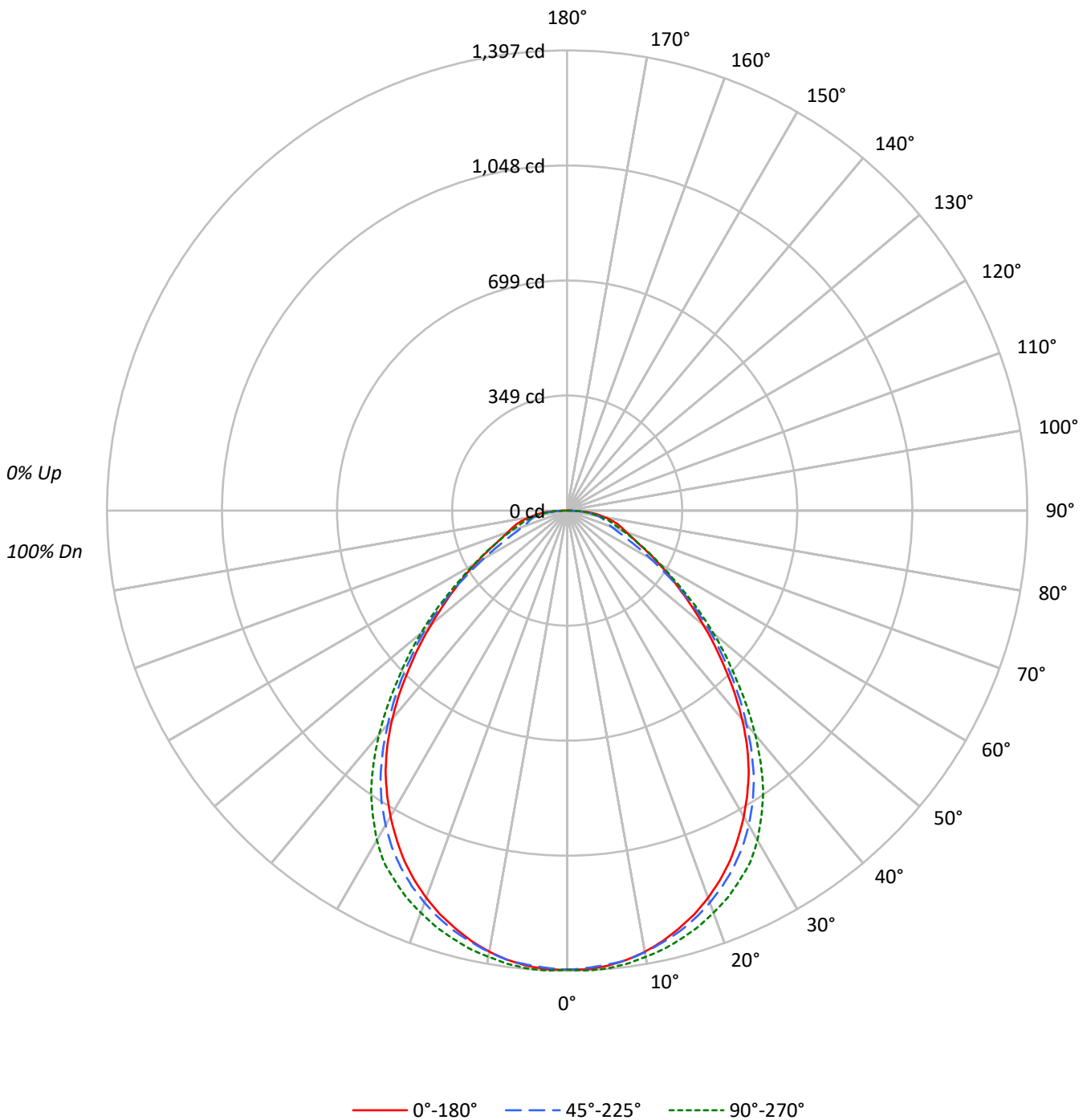
Input Watts (W): 25.296
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3751	3751	3751
5°	3748	3739	3769
10°	3716	3720	3759
15°	3657	3683	3746
20°	3582	3628	3721
25°	3477	3548	3678
30°	3332	3426	3591
35°	3157	3245	3410
40°	2903	2975	3123
45°	2579	2672	2769
50°	2252	2355	2426
55°	1958	1985	2058
60°	1723	1579	1757
65°	1531	1261	1540
70°	1504	1120	1420
75°	1642	1232	1451
80°	1802	1464	1551
85°	2155	1698	1741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.7	4.4
10°-20°	373.6	12.4
20°-30°	551.5	18.2
30°-40°	617.1	20.4
40°-50°	541.9	17.9
50°-60°	383.5	12.7
60°-70°	223.2	7.4
70°-80°	139.1	4.6
80°-90°	62.2	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°	1056.9	34.9
0°-40°	1674.0	55.4
0°-60°	2599.4	86.0
0°-90°	3024.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3024.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1394	1394	1394	1394	1394	
5°	1388	1384	1384	1391	1395	132
15°	1313	1316	1322	1336	1345	370
25°	1171	1176	1195	1223	1239	538
35°	961	965	988	1017	1038	598
45°	678	685	702	719	728	524
55°	417	426	423	431	439	377
65°	240	221	198	216	242	244
75°	158	136	118	121	140	165
85°	70	73	55	54	56	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1393.9	1393.9	1393.9	1393.9	<i>1393.9</i>
2.5°	<i>1393.9</i>	<i>1391.1</i>	<i>1389.7</i>	<i>1394.6</i>	<i>1397.4</i>
5°	1387.6	1384.0	1384.0	1391.1	<i>1395.3</i>
7.5°	1376.3	1372.8	1377.0	1383.3	<i>1387.6</i>
10°	1360.1	1358.7	1361.5	1369.9	<i>1375.6</i>
12.5°	1338.9	1339.6	1342.4	1355.8	<i>1362.9</i>
15°	1312.8	1315.7	1322.0	1336.1	<i>1344.6</i>
17.5°	1284.6	1286.7	1296.6	1312.8	<i>1324.8</i>
20°	1250.8	1255.0	1267.0	1287.4	<i>1299.4</i>
22.5°	1213.4	1218.4	1233.2	1257.8	<i>1272.6</i>
25°	1171.1	1176.0	1195.1	1223.3	<i>1238.8</i>
27.5°	1123.2	1130.9	1152.1	1183.1	<i>1204.3</i>
30°	1072.4	1078.7	1102.7	1138.0	<i>1155.6</i>
32.5°	1018.1	1025.9	1048.4	1082.3	<i>1097.8</i>
35°	961.0	965.2	987.8	1017.4	<i>1037.9</i>
37.5°	896.1	898.3	919.4	946.9	<i>965.2</i>
40°	826.3	827.7	846.8	872.9	<i>889.1</i>
42.5°	753.7	754.4	774.9	794.6	<i>808.7</i>
45°	677.6	685.3	702.2	719.2	<i>727.6</i>
47.5°	609.2	614.8	630.3	645.1	<i>652.9</i>
50°	538.0	552.1	562.6	570.4	<i>579.6</i>
52.5°	476.6	488.6	491.4	500.6	<i>508.4</i>
55°	417.4	425.9	423.0	430.8	<i>438.6</i>
57.5°	367.3	363.1	353.9	367.3	<i>377.2</i>
60°	320.1	308.8	293.3	311.6	<i>326.4</i>
62.5°	277.8	259.5	240.4	258.8	<i>283.4</i>
65°	240.4	221.4	198.1	215.7	<i>241.8</i>
67.5°	212.2	192.5	165.0	182.6	<i>208.7</i>
70°	191.1	170.6	142.4	157.2	<i>180.5</i>
72.5°	174.2	152.3	127.6	137.5	<i>157.2</i>
75°	157.9	136.1	118.5	121.3	<i>139.6</i>
77.5°	138.9	122.7	108.6	107.2	<i>121.3</i>
80°	116.3	111.4	94.5	92.4	<i>100.1</i>
82.5°	95.9	93.8	77.6	75.4	<i>78.3</i>
85°	69.8	72.6	55.0	53.6	<i>56.4</i>
87.5°	36.7	40.2	28.9	30.3	<i>31.0</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)