

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: P292329

Luminaire Tested: **22GR-LD5-24-A125-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292329
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-LD5-24-A125-UNV-L83050-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2573.0 lumens
Efficiency: N/A
Efficacy: 135.0 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

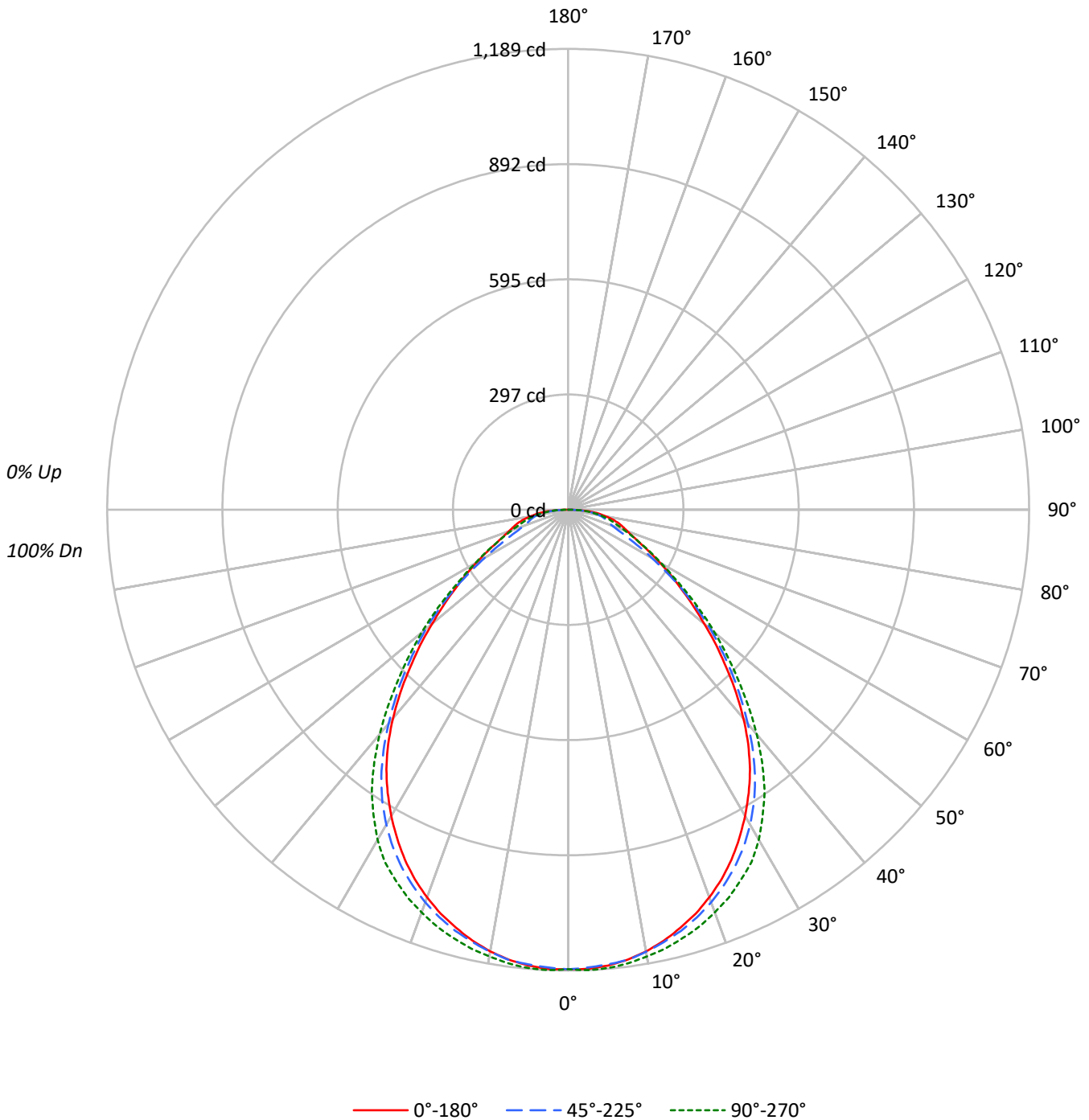
Input Watts (W): 19.065
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3192	3192	3192
5°	3189	3181	3207
10°	3162	3165	3198
15°	3112	3134	3187
20°	3048	3087	3166
25°	2959	3019	3130
30°	2835	2916	3055
35°	2686	2761	2901
40°	2470	2531	2657
45°	2194	2274	2356
50°	1916	2004	2064
55°	1666	1688	1750
60°	1466	1343	1495
65°	1303	1074	1310
70°	1279	954	1209
75°	1397	1048	1235
80°	1534	1246	1320
85°	1834	1445	1482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	4.4
10°-20°	317.9	12.4
20°-30°	469.3	18.2
30°-40°	525.1	20.4
40°-50°	461.1	17.9
50°-60°	326.3	12.7
60°-70°	189.9	7.4
70°-80°	118.4	4.6
80°-90°	53.0	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°	899.2	34.9
0°-40°	1424.3	55.4
0°-60°	2211.7	86.0
0°-90°	2573.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2573.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1186	1186	1186	1186	1186	
5°	1181	1178	1178	1184	1187	112
15°	1117	1119	1125	1137	1144	315
25°	996	1001	1017	1041	1054	458
35°	818	821	840	866	883	509
45°	576	583	598	612	619	446
55°	355	362	360	366	373	321
65°	205	188	169	184	206	208
75°	134	116	101	103	119	140
85°	59	62	47	46	48	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1186.0	1186.0	1186.0	1186.0	<i>1186.0</i>
2.5°	<i>1186.0</i>	<i>1183.6</i>	<i>1182.4</i>	<i>1186.6</i>	<i>1189.0</i>
5°	1180.6	1177.6	1177.6	1183.6	<i>1187.2</i>
7.5°	1171.0	1168.0	1171.6	1177.0	<i>1180.6</i>
10°	1157.2	1156.0	1158.4	1165.6	<i>1170.4</i>
12.5°	1139.2	1139.8	1142.2	1153.6	<i>1159.6</i>
15°	1117.0	1119.4	1124.8	1136.8	<i>1144.0</i>
17.5°	1093.0	1094.8	1103.2	1117.0	<i>1127.2</i>
20°	1064.2	1067.8	1078.0	1095.4	<i>1105.6</i>
22.5°	1032.4	1036.6	1049.2	1070.2	<i>1082.8</i>
25°	996.5	1000.7	1016.9	1040.8	<i>1054.0</i>
27.5°	955.7	962.3	980.3	1006.7	<i>1024.6</i>
30°	912.5	917.9	938.3	968.3	<i>983.3</i>
32.5°	866.3	872.9	892.1	920.9	<i>934.1</i>
35°	817.7	821.3	840.5	865.7	<i>883.1</i>
37.5°	762.5	764.3	782.3	805.7	<i>821.3</i>
40°	703.1	704.3	720.5	742.7	<i>756.5</i>
42.5°	641.3	641.9	659.3	676.1	<i>688.1</i>
45°	576.5	583.1	597.5	611.9	<i>619.1</i>
47.5°	518.3	523.1	536.3	548.9	<i>555.5</i>
50°	457.7	469.7	478.7	485.3	<i>493.1</i>
52.5°	405.5	415.7	418.1	425.9	<i>432.5</i>
55°	355.1	362.3	359.9	366.5	<i>373.1</i>
57.5°	312.6	309.0	301.2	312.6	<i>321.0</i>
60°	272.4	262.8	249.6	265.2	<i>277.8</i>
62.5°	236.4	220.8	204.6	220.2	<i>241.2</i>
65°	204.6	188.4	168.6	183.6	<i>205.8</i>
67.5°	180.6	163.8	140.4	155.4	<i>177.6</i>
70°	162.6	145.2	121.2	133.8	<i>153.6</i>
72.5°	148.2	129.6	108.6	117.0	<i>133.8</i>
75°	134.4	115.8	100.8	103.2	<i>118.8</i>
77.5°	118.2	104.4	92.4	91.2	<i>103.2</i>
80°	99.0	94.8	80.4	78.6	<i>85.2</i>
82.5°	81.6	79.8	66.0	64.2	<i>66.6</i>
85°	59.4	61.8	46.8	45.6	<i>48.0</i>
87.5°	31.2	34.2	24.6	25.8	<i>26.4</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)