

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: P292371

Luminaire Tested: **22GR-LD5-24-A125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292371
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-L82765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2525.0 lumens
Efficiency: N/A
Efficacy: 135.8 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

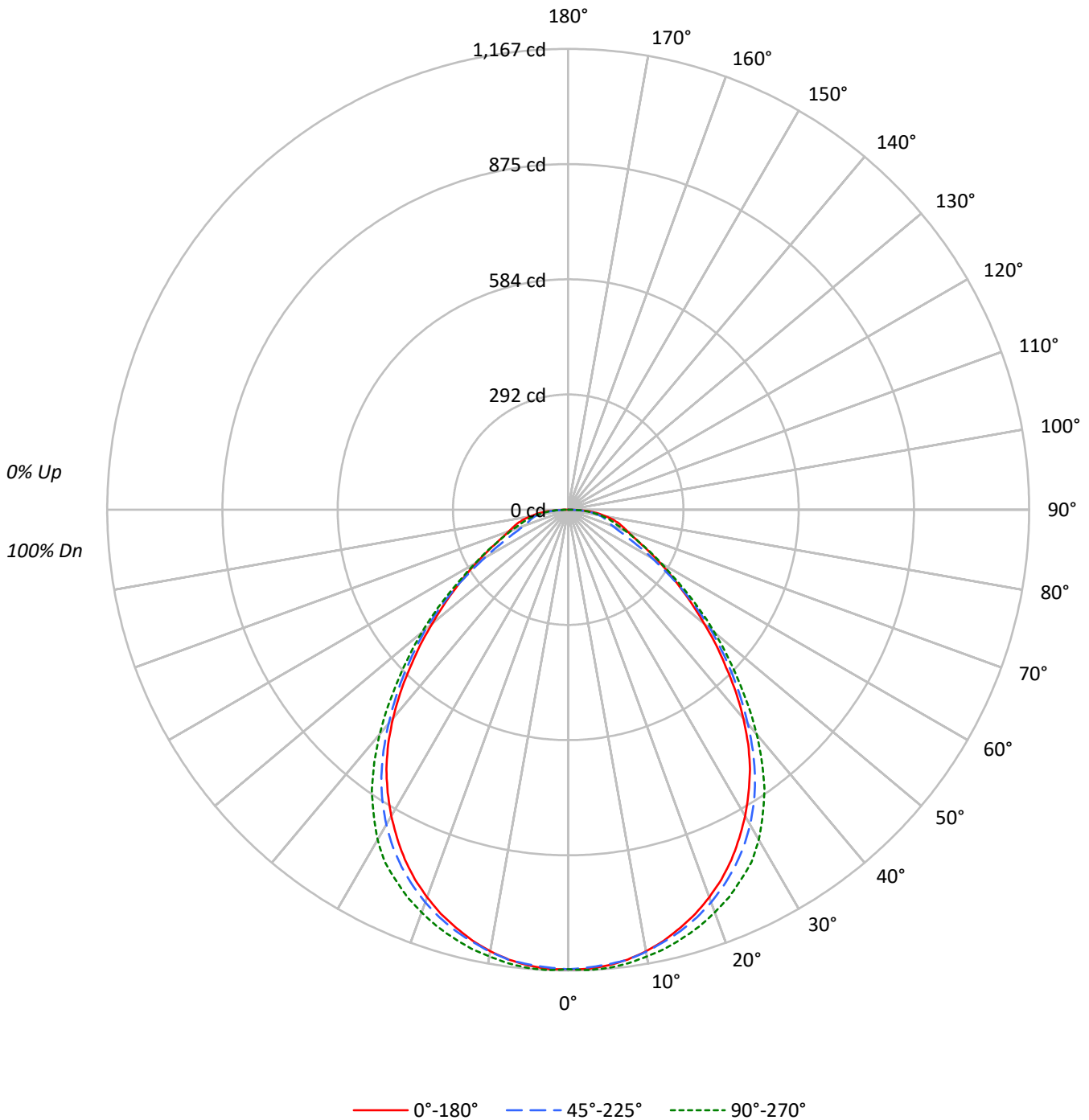
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3132	3132	3132
5°	3130	3122	3147
10°	3103	3106	3139
15°	3054	3075	3128
20°	2991	3029	3107
25°	2904	2963	3071
30°	2782	2861	2998
35°	2636	2710	2847
40°	2424	2484	2608
45°	2153	2232	2312
50°	1881	1967	2026
55°	1635	1657	1718
60°	1439	1318	1467
65°	1279	1053	1286
70°	1255	935	1186
75°	1371	1028	1212
80°	1505	1223	1296
85°	1800	1417	1454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.0	4.4
10°-20°	311.9	12.4
20°-30°	460.5	18.2
30°-40°	515.3	20.4
40°-50°	452.5	17.9
50°-60°	320.2	12.7
60°-70°	186.4	7.4
70°-80°	116.2	4.6
80°-90°	52.0	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°	882.5	34.9
0°-40°	1397.8	55.4
0°-60°	2170.5	86.0
0°-90°	2525.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2525.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1164	1164	1164	1164	1164	
5°	1159	1156	1156	1162	1165	110
15°	1096	1099	1104	1116	1123	309
25°	978	982	998	1021	1034	449
35°	802	806	825	850	867	499
45°	566	572	586	600	608	438
55°	348	356	353	360	366	315
65°	201	185	165	180	202	204
75°	132	114	99	101	117	138
85°	58	61	46	45	47	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1163.9	1163.9	1163.9	1163.9	<i>1163.9</i>
2.5°	<i>1163.9</i>	<i>1161.5</i>	<i>1160.4</i>	<i>1164.5</i>	<i>1166.8</i>
5°	1158.6	1155.7	1155.7	1161.5	<i>1165.1</i>
7.5°	1149.2	1146.2	1149.8	1155.1	<i>1158.6</i>
10°	1135.6	1134.5	1136.8	1143.9	<i>1148.6</i>
12.5°	1118.0	1118.6	1120.9	1132.1	<i>1138.0</i>
15°	1096.2	1098.6	1103.9	1115.6	<i>1122.7</i>
17.5°	1072.6	1074.4	1082.7	1096.2	<i>1106.2</i>
20°	1044.4	1047.9	1057.9	1075.0	<i>1085.0</i>
22.5°	1013.2	1017.3	1029.7	1050.3	<i>1062.6</i>
25°	977.9	982.0	997.9	1021.4	<i>1034.4</i>
27.5°	937.8	944.3	962.0	987.9	<i>1005.5</i>
30°	895.4	900.7	920.8	950.2	<i>964.9</i>
32.5°	850.1	856.6	875.4	903.7	<i>916.6</i>
35°	802.4	806.0	824.8	849.5	<i>866.6</i>
37.5°	748.3	750.0	767.7	790.7	<i>806.0</i>
40°	690.0	691.2	707.1	728.8	<i>742.4</i>
42.5°	629.3	629.9	647.0	663.5	<i>675.3</i>
45°	565.8	572.2	586.4	600.5	<i>607.6</i>
47.5°	508.7	513.4	526.3	538.7	<i>545.2</i>
50°	449.2	461.0	469.8	476.3	<i>483.9</i>
52.5°	398.0	408.0	410.3	418.0	<i>424.5</i>
55°	348.5	355.6	353.2	359.7	<i>366.2</i>
57.5°	306.7	303.2	295.5	306.7	<i>315.0</i>
60°	267.3	257.9	244.9	260.2	<i>272.6</i>
62.5°	232.0	216.6	200.8	216.1	<i>236.7</i>
65°	200.8	184.9	165.4	180.1	<i>201.9</i>
67.5°	177.2	160.7	137.8	152.5	<i>174.3</i>
70°	159.5	142.5	118.9	131.3	<i>150.7</i>
72.5°	145.4	127.2	106.6	114.8	<i>131.3</i>
75°	131.9	113.6	98.9	101.3	<i>116.6</i>
77.5°	116.0	102.4	90.7	89.5	<i>101.3</i>
80°	97.1	93.0	78.9	77.1	<i>83.6</i>
82.5°	80.1	78.3	64.8	63.0	<i>65.3</i>
85°	58.3	60.6	45.9	44.7	<i>47.1</i>
87.5°	30.6	33.6	24.1	25.3	<i>25.9</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)