

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: P292470

Luminaire Tested: **22GR-LD5-24-A125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292470
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-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: 2289.0 lumens
Efficiency: N/A
Efficacy: 122.5 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

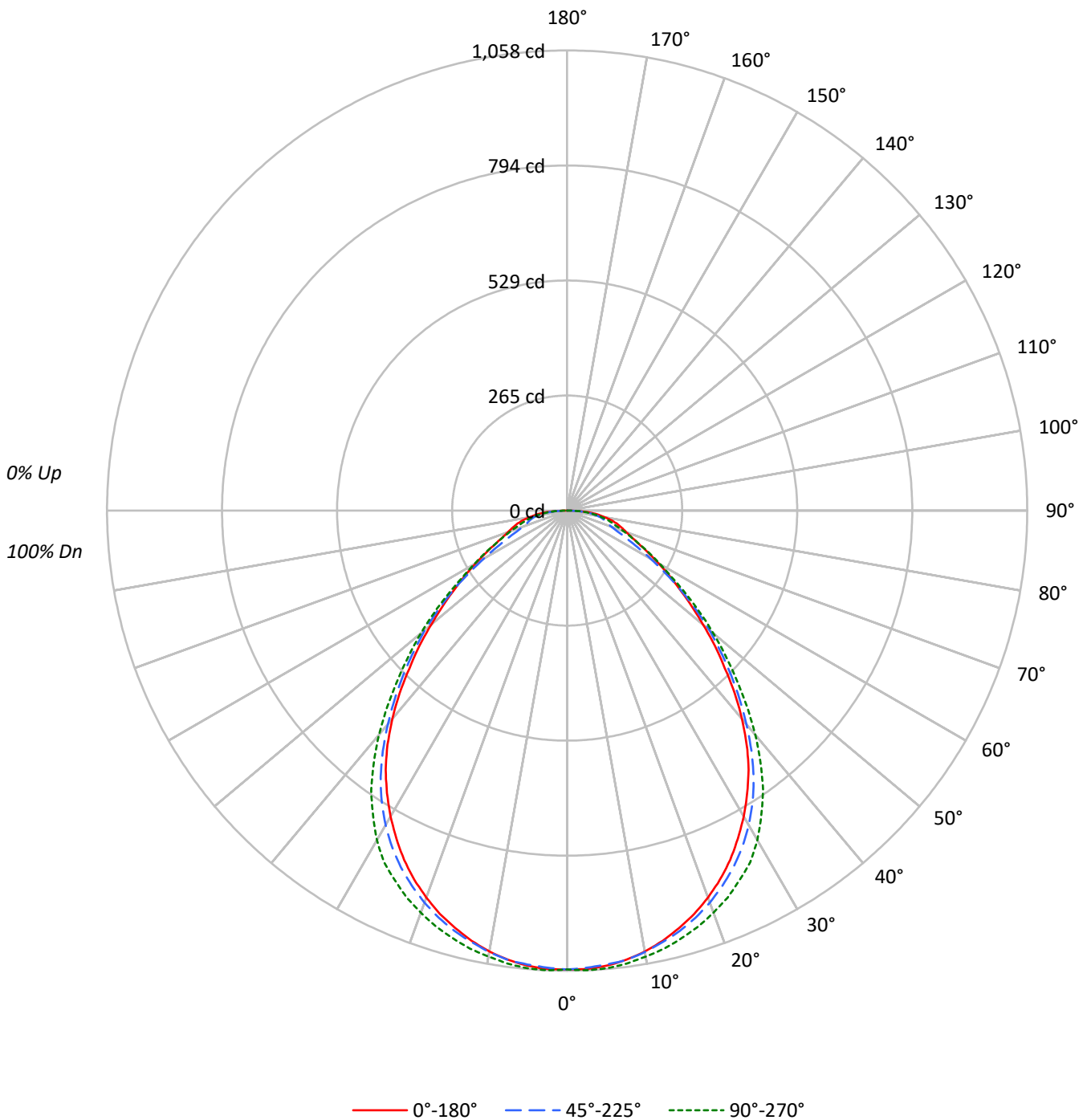
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2839	2839	2839
5°	2837	2830	2853
10°	2813	2816	2845
15°	2768	2788	2835
20°	2711	2747	2817
25°	2632	2686	2784
30°	2522	2594	2718
35°	2390	2456	2581
40°	2197	2252	2364
45°	1952	2023	2096
50°	1705	1783	1837
55°	1482	1502	1558
60°	1304	1195	1330
65°	1159	955	1166
70°	1138	848	1075
75°	1242	933	1099
80°	1365	1108	1175
85°	1630	1284	1318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.7	4.4
10°-20°	282.8	12.4
20°-30°	417.5	18.2
30°-40°	467.1	20.4
40°-50°	410.2	17.9
50°-60°	290.3	12.7
60°-70°	169.0	7.4
70°-80°	105.3	4.6
80°-90°	47.1	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°	800.0	34.9
0°-40°	1267.1	55.4
0°-60°	1967.7	86.0
0°-90°	2289.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2289.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1055	1055	1055	1055	1055	
5°	1050	1048	1048	1053	1056	100
15°	994	996	1001	1011	1018	280
25°	886	890	905	926	938	407
35°	727	731	748	770	786	452
45°	513	519	532	544	551	397
55°	316	322	320	326	332	286
65°	182	168	150	163	183	185
75°	120	103	90	92	106	125
85°	53	55	42	41	43	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1055.1	1055.1	1055.1	1055.1	1055.1
2.5°	1055.1	1053.0	1051.9	1055.6	1057.8
5°	1050.3	1047.6	1047.6	1053.0	1056.2
7.5°	1041.8	1039.1	1042.3	1047.1	1050.3
10°	1029.5	1028.4	1030.6	1037.0	1041.2
12.5°	1013.5	1014.0	1016.2	1026.3	1031.6
15°	993.7	995.9	1000.7	1011.4	1017.8
17.5°	972.4	974.0	981.5	993.7	1002.8
20°	946.8	950.0	959.1	974.5	983.6
22.5°	918.5	922.2	933.4	952.1	963.3
25°	886.5	890.2	904.6	926.0	937.7
27.5°	850.2	856.0	872.1	895.5	911.6
30°	811.8	816.6	834.7	861.4	874.7
32.5°	770.7	776.5	793.6	819.2	831.0
35°	727.4	730.6	747.7	770.1	785.6
37.5°	678.3	679.9	695.9	716.8	730.6
40°	625.5	626.6	641.0	660.7	673.0
42.5°	570.5	571.1	586.5	601.5	612.1
45°	512.9	518.8	531.6	544.4	550.8
47.5°	461.1	465.4	477.1	488.3	494.2
50°	407.2	417.9	425.9	431.8	438.7
52.5°	360.8	369.9	372.0	378.9	384.8
55°	315.9	322.4	320.2	326.1	332.0
57.5°	278.1	274.9	267.9	278.1	285.5
60°	242.3	233.8	222.0	235.9	247.1
62.5°	210.3	196.4	182.0	195.9	214.5
65°	182.0	167.6	150.0	163.3	183.1
67.5°	160.6	145.7	124.9	138.2	158.0
70°	144.6	129.2	107.8	119.0	136.6
72.5°	131.8	115.3	96.6	104.1	119.0
75°	119.5	103.0	89.7	91.8	105.7
77.5°	105.1	92.9	82.2	81.1	91.8
80°	88.1	84.3	71.5	69.9	75.8
82.5°	72.6	71.0	58.7	57.1	59.2
85°	52.8	55.0	41.6	40.6	42.7
87.5°	27.8	30.4	21.9	22.9	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)