

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: P292366

Luminaire Tested: **22GR-LD5-24-A125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292366
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-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2292.0 lumens
Efficiency: N/A
Efficacy: 127.0 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

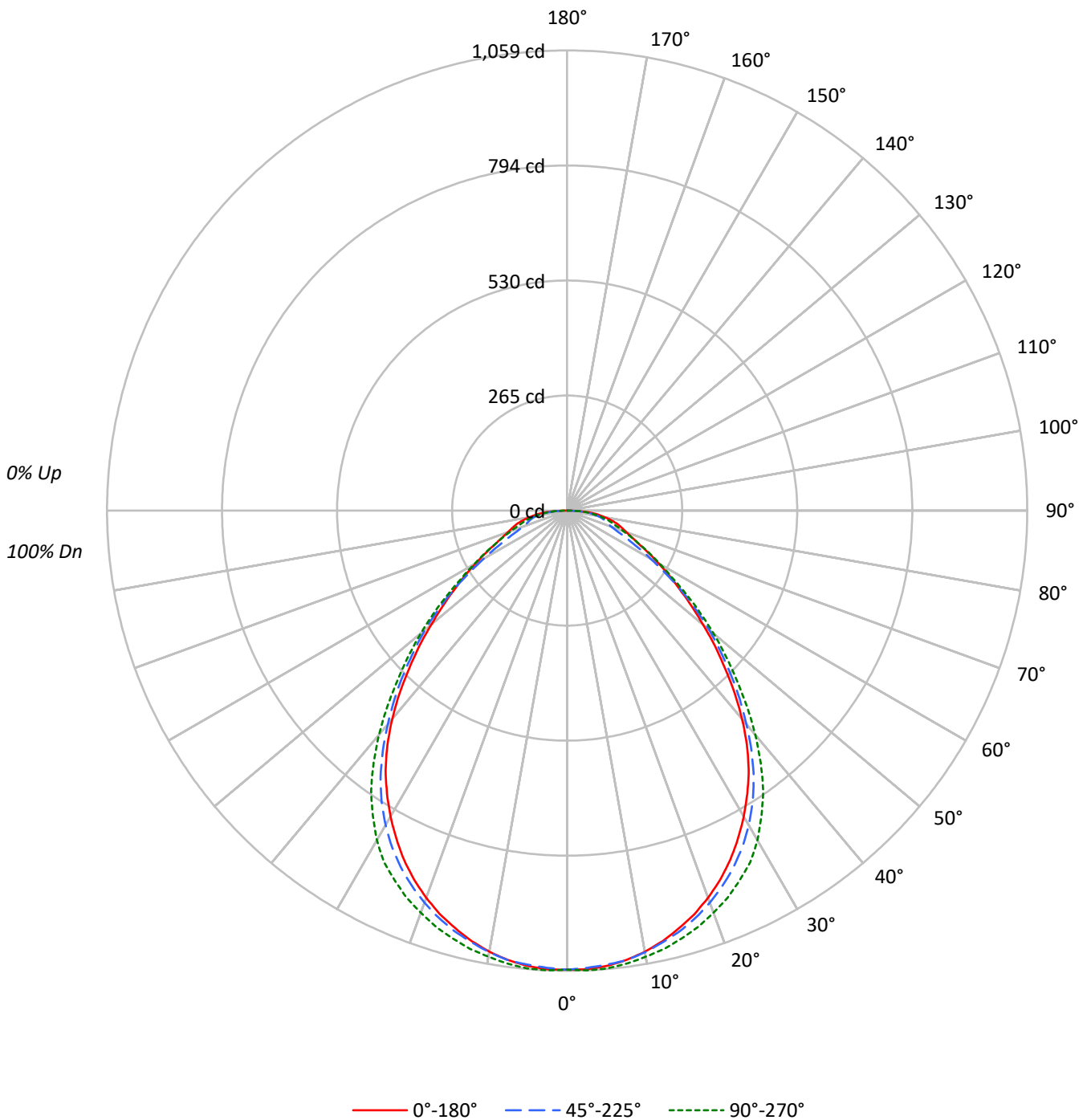
Input Watts (W): 18.042
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2843	2843	2843
5°	2841	2834	2857
10°	2817	2820	2849
15°	2772	2791	2839
20°	2715	2750	2820
25°	2635	2689	2788
30°	2526	2597	2722
35°	2393	2460	2584
40°	2200	2255	2367
45°	1955	2026	2099
50°	1707	1785	1839
55°	1484	1504	1559
60°	1306	1196	1331
65°	1160	956	1167
70°	1139	849	1076
75°	1245	934	1100
80°	1367	1110	1176
85°	1633	1288	1321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.8	4.4
10°-20°	283.2	12.4
20°-30°	418.0	18.2
30°-40°	467.8	20.4
40°-50°	410.8	17.9
50°-60°	290.7	12.7
60°-70°	169.2	7.4
70°-80°	105.4	4.6
80°-90°	47.2	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°	801.0	34.9
0°-40°	1268.8	55.4
0°-60°	1970.2	86.0
0°-90°	2292.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2292.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1052	1049	1049	1054	1058	100
15°	995	997	1002	1013	1019	280
25°	888	891	906	927	939	408
35°	728	732	749	771	787	453
45°	514	519	532	545	552	397
55°	316	323	321	326	332	286
65°	182	168	150	164	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°	1056.5	1056.5	1056.5	1056.5	1056.5
2.5°	1056.5	1054.4	1053.3	1057.0	1059.2
5°	1051.7	1049.0	1049.0	1054.4	1057.6
7.5°	1043.1	1040.5	1043.7	1048.5	1051.7
10°	1030.8	1029.8	1031.9	1038.3	1042.6
12.5°	1014.8	1015.4	1017.5	1027.6	1033.0
15°	995.0	997.2	1002.0	1012.7	1019.1
17.5°	973.7	975.3	982.8	995.0	1004.1
20°	948.0	951.2	960.3	975.8	984.9
22.5°	919.7	923.4	934.7	953.4	964.6
25°	887.6	891.4	905.8	927.2	938.9
27.5°	851.3	857.2	873.2	896.7	912.7
30°	812.8	817.6	835.8	862.5	875.9
32.5°	771.7	777.5	794.6	820.3	832.1
35°	728.4	731.6	748.7	771.1	786.6
37.5°	679.2	680.8	696.9	717.7	731.6
40°	626.3	627.4	641.8	661.6	673.9
42.5°	571.3	571.8	587.3	602.3	613.0
45°	513.6	519.4	532.3	545.1	551.5
47.5°	461.7	466.0	477.7	489.0	494.8
50°	407.7	418.4	426.4	432.3	439.3
52.5°	361.3	370.3	372.5	379.4	385.3
55°	316.4	322.8	320.6	326.5	332.4
57.5°	278.4	275.2	268.3	278.4	285.9
60°	242.6	234.1	222.3	236.2	247.4
62.5°	210.6	196.7	182.2	196.1	214.8
65°	182.2	167.8	150.2	163.5	183.3
67.5°	160.9	145.9	125.0	138.4	158.2
70°	144.8	129.3	107.9	119.2	136.8
72.5°	132.0	115.4	96.7	104.2	119.2
75°	119.7	103.1	89.8	91.9	105.8
77.5°	105.3	93.0	82.3	81.2	91.9
80°	88.2	84.4	71.6	70.0	75.9
82.5°	72.7	71.1	58.8	57.2	59.3
85°	52.9	55.0	41.7	40.6	42.8
87.5°	27.8	30.5	21.9	23.0	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)