

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: P292463

Luminaire Tested: **22GR-LD5-24-A125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292463
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-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1903.0 lumens
Efficiency: N/A
Efficacy: 104.9 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

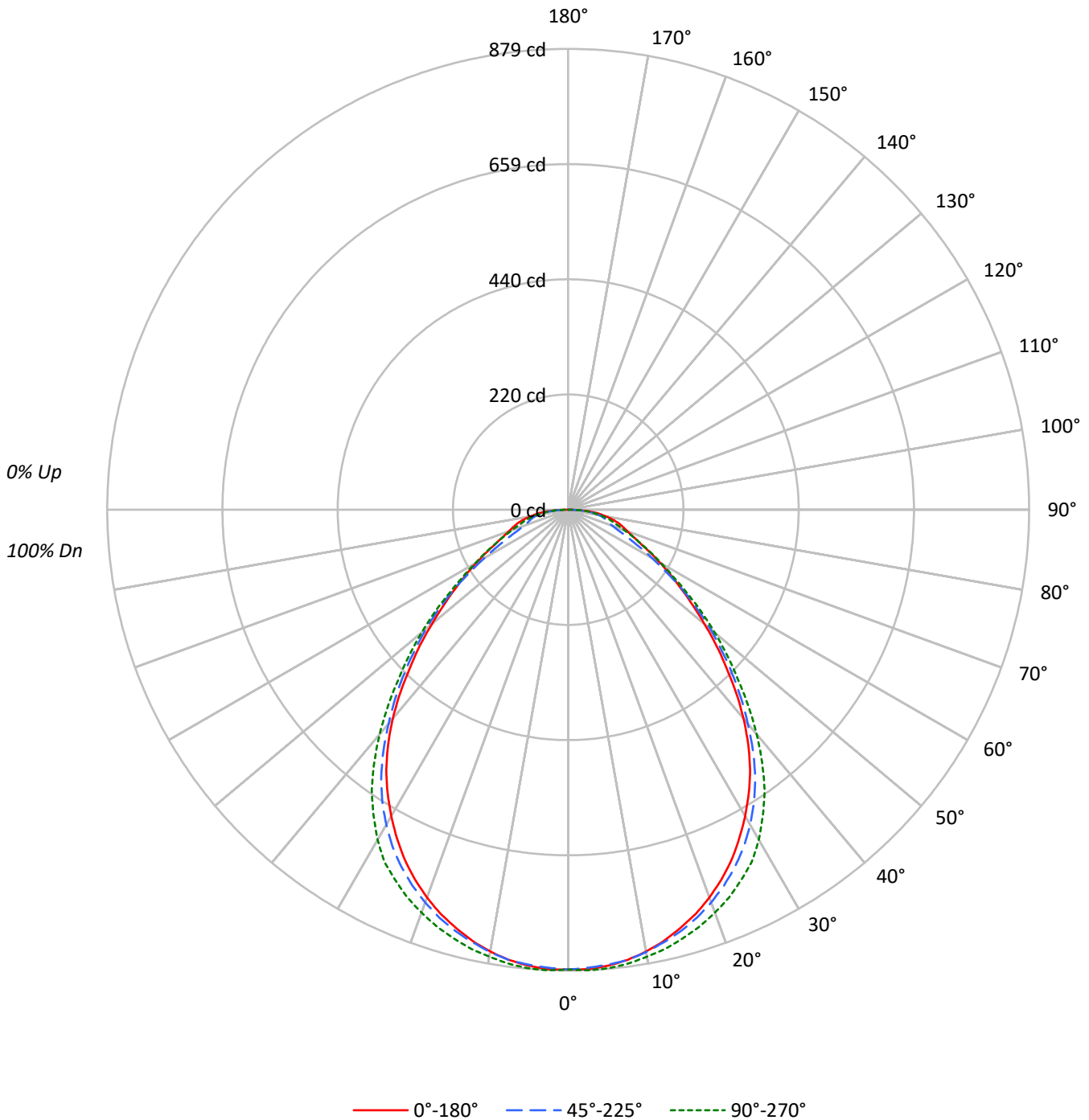
Input Watts (W): 18.135
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2361	2361	2361
5°	2359	2353	2372
10°	2339	2341	2366
15°	2302	2318	2357
20°	2254	2283	2342
25°	2188	2233	2315
30°	2097	2156	2260
35°	1987	2042	2145
40°	1827	1872	1965
45°	1623	1682	1743
50°	1417	1482	1527
55°	1232	1249	1295
60°	1084	994	1105
65°	963	794	969
70°	946	705	894
75°	1033	775	914
80°	1134	922	976
85°	1355	1068	1096



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	4.4
10°-20°	235.1	12.4
20°-30°	347.1	18.2
30°-40°	388.4	20.4
40°-50°	341.1	17.9
50°-60°	241.3	12.7
60°-70°	140.5	7.4
70°-80°	87.5	4.6
80°-90°	39.2	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°	665.1	34.9
0°-40°	1053.5	55.4
0°-60°	1635.8	86.0
0°-90°	1903.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1903.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	877	877	877	877	877	
5°	873	871	871	875	878	83
15°	826	828	832	841	846	233
25°	737	740	752	770	780	338
35°	605	607	622	640	653	376
45°	426	431	442	453	458	330
55°	263	268	266	271	276	237
65°	151	139	125	136	152	153
75°	99	86	74	76	88	104
85°	44	46	35	34	36	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	877.2	877.2	877.2	877.2	877.2
2.5°	877.2	875.4	874.5	877.6	879.4
5°	873.2	871.0	871.0	875.4	878.1
7.5°	866.1	863.9	866.5	870.5	873.2
10°	855.9	855.0	856.8	862.1	865.7
12.5°	842.6	843.0	844.8	853.2	857.7
15°	826.2	827.9	831.9	840.8	846.1
17.5°	808.4	809.7	816.0	826.2	833.7
20°	787.1	789.8	797.3	810.2	817.7
22.5°	763.6	766.7	776.0	791.6	800.9
25°	737.0	740.1	752.1	769.8	779.6
27.5°	706.8	711.7	725.0	744.5	757.8
30°	674.9	678.9	693.9	716.1	727.2
32.5°	640.7	645.6	659.8	681.1	690.8
35°	604.8	607.4	621.6	640.3	653.1
37.5°	563.9	565.3	578.6	595.9	607.4
40°	520.0	520.9	532.9	549.3	559.5
42.5°	474.3	474.8	487.6	500.0	508.9
45°	426.4	431.3	441.9	452.6	457.9
47.5°	383.4	386.9	396.7	406.0	410.9
50°	338.5	347.4	354.1	359.0	364.7
52.5°	299.9	307.5	309.3	315.0	319.9
55°	262.7	268.0	266.2	271.1	276.0
57.5°	231.2	228.5	222.7	231.2	237.4
60°	201.4	194.3	184.6	196.1	205.4
62.5°	174.8	163.3	151.3	162.8	178.4
65°	151.3	139.3	124.7	135.8	152.2
67.5°	133.6	121.1	103.8	114.9	131.3
70°	120.2	107.4	89.6	98.9	113.6
72.5°	109.6	95.8	80.3	86.5	98.9
75°	99.4	85.6	74.5	76.3	87.9
77.5°	87.4	77.2	68.3	67.4	76.3
80°	73.2	70.1	59.5	58.1	63.0
82.5°	60.3	59.0	48.8	47.5	49.3
85°	43.9	45.7	34.6	33.7	35.5
87.5°	23.1	25.3	18.2	19.1	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)