

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: P225713

Luminaire Tested: **22GR-LD5-24-A125-UNV-L930-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P225713  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-24-A125-UNV-L930-CD1-U  
Description: METALUX GR 2X2 LED TROFFER WITH A125 LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1972.9 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

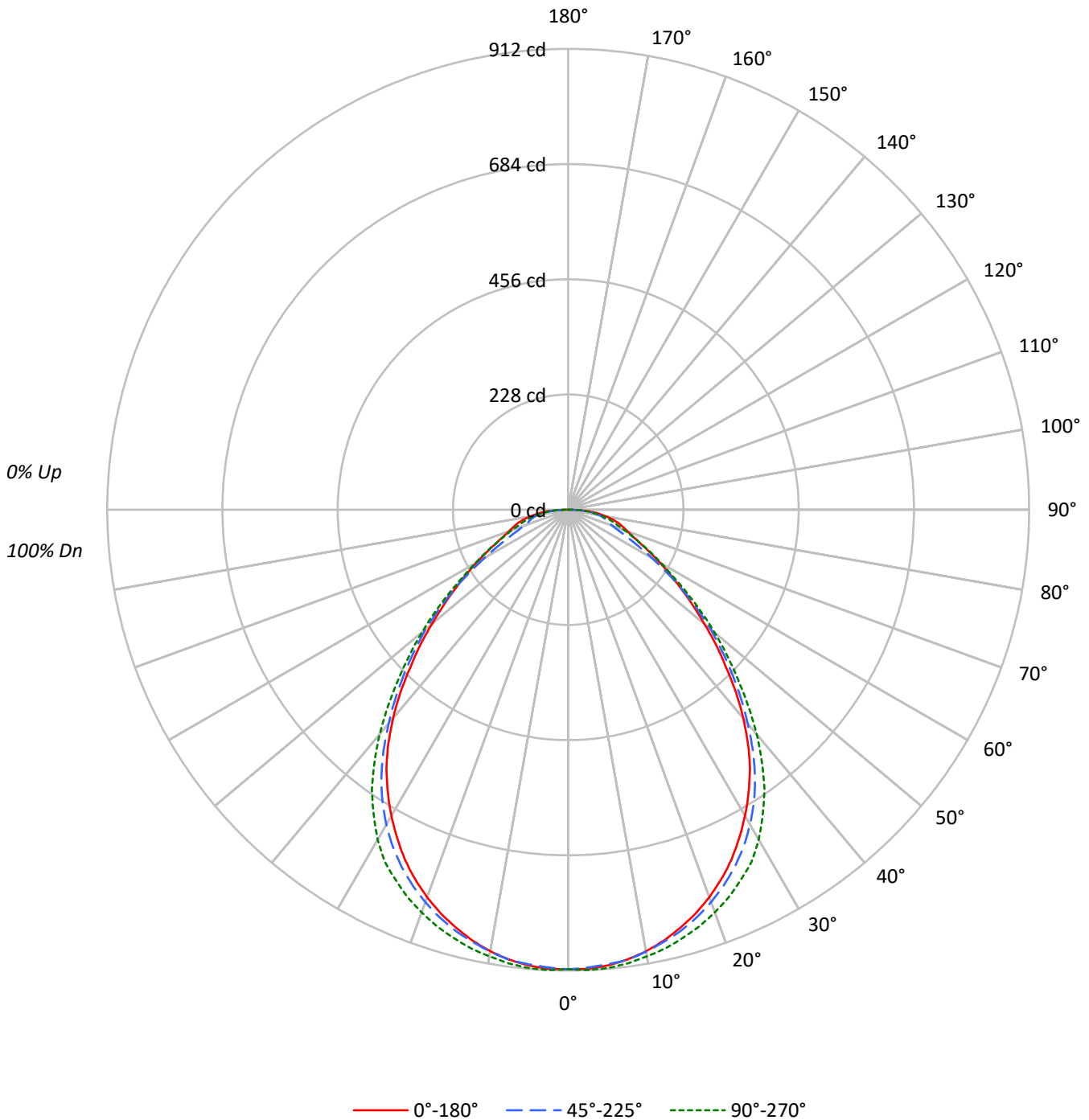
Input Watts (W): 19.219  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P225713

CATALOG NUMBER: 22GR-LD5-24-A125-UNV-L930-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P225713

CATALOG NUMBER: 22GR-LD5-24-A125-UNV-L930-CD1-U

**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°	2912	2912	2912
5°	2910	2903	2927
10°	2885	2888	2919
15°	2840	2860	2908
20°	2781	2817	2889
25°	2700	2755	2856
30°	2587	2661	2788
35°	2451	2519	2648
40°	2254	2309	2425
45°	2002	2075	2150
50°	1749	1829	1884
55°	1520	1541	1597
60°	1338	1226	1364
65°	1189	979	1196
70°	1167	870	1103
75°	1276	955	1127
80°	1400	1138	1206
85°	1672	1319	1352



TEST NUMBER: P225713

CATALOG NUMBER: 22GR-LD5-24-A125-UNV-L930-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.9	4.4
10°-20°	243.7	12.4
20°-30°	359.8	18.2
30°-40°	402.6	20.4
40°-50°	353.6	17.9
50°-60°	250.2	12.7
60°-70°	145.6	7.4
70°-80°	90.8	4.6
80°-90°	40.6	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°	689.5	34.9
0°-40°	1092.2	55.4
0°-60°	1695.9	86.0
0°-90°	1972.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1972.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	909	909	909	909	909	
5°	905	903	903	908	910	86
15°	856	858	862	872	877	241
25°	764	767	780	798	808	351
35°	627	630	644	664	677	390
45°	442	447	458	469	475	342
55°	272	278	276	281	286	246
65°	157	144	129	141	158	159
75°	103	89	77	79	91	108
85°	46	47	36	35	37	46
90°	0	0	0	0	0	



TEST NUMBER: P225713

CATALOG NUMBER: 22GR-LD5-24-A125-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	909.4	909.4	909.4	909.4	909.4
2.5°	909.4	907.6	906.7	909.9	911.8
5°	905.3	903.0	903.0	907.6	910.4
7.5°	897.9	895.6	898.4	902.5	905.3
10°	887.3	886.4	888.2	893.8	897.5
12.5°	873.5	874.0	875.8	884.6	889.2
15°	856.5	858.4	862.5	871.7	877.2
17.5°	838.1	839.5	845.9	856.5	864.4
20°	816.1	818.8	826.6	839.9	847.8
22.5°	791.6	794.9	804.5	820.7	830.3
25°	764.1	767.3	779.7	798.1	808.2
27.5°	732.8	737.8	751.6	771.9	785.6
30°	699.6	703.8	719.5	742.4	753.9
32.5°	664.2	669.3	684.0	706.1	716.2
35°	627.0	629.8	644.4	663.8	677.2
37.5°	584.7	586.1	599.8	617.8	629.8
40°	539.2	540.1	552.4	569.5	580.1
42.5°	491.8	492.2	505.5	518.4	527.6
45°	442.1	447.1	458.1	469.2	474.7
47.5°	397.5	401.1	411.2	420.9	426.0
50°	351.0	360.1	367.1	372.1	378.1
52.5°	310.9	318.8	320.6	326.6	331.7
55°	272.3	277.8	276.0	281.1	286.1
57.5°	239.7	236.9	230.9	239.7	246.1
60°	208.9	201.5	191.4	203.4	213.0
62.5°	181.2	169.2	156.9	168.8	184.9
65°	156.9	144.4	129.2	140.8	157.8
67.5°	138.5	125.5	107.7	119.1	136.1
70°	124.6	111.4	92.9	102.6	117.8
72.5°	113.7	99.4	83.2	89.7	102.6
75°	103.1	88.8	77.2	79.1	91.1
77.5°	90.6	80.0	70.8	69.9	79.1
80°	75.9	72.7	61.7	60.3	65.4
82.5°	62.6	61.2	50.6	49.2	51.1
85°	45.5	47.4	35.9	34.9	36.8
87.5°	23.9	26.2	18.9	19.8	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)