

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: P214462

Luminaire Tested: **22GRLD2435R1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P214462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GRLD2435R1
Description: METALUX GR 2X2 LED TROFFER WITH A LENS
Light Source: (84) 3500K CCT, 85 CRI LEDs
Ballast/Driver: -

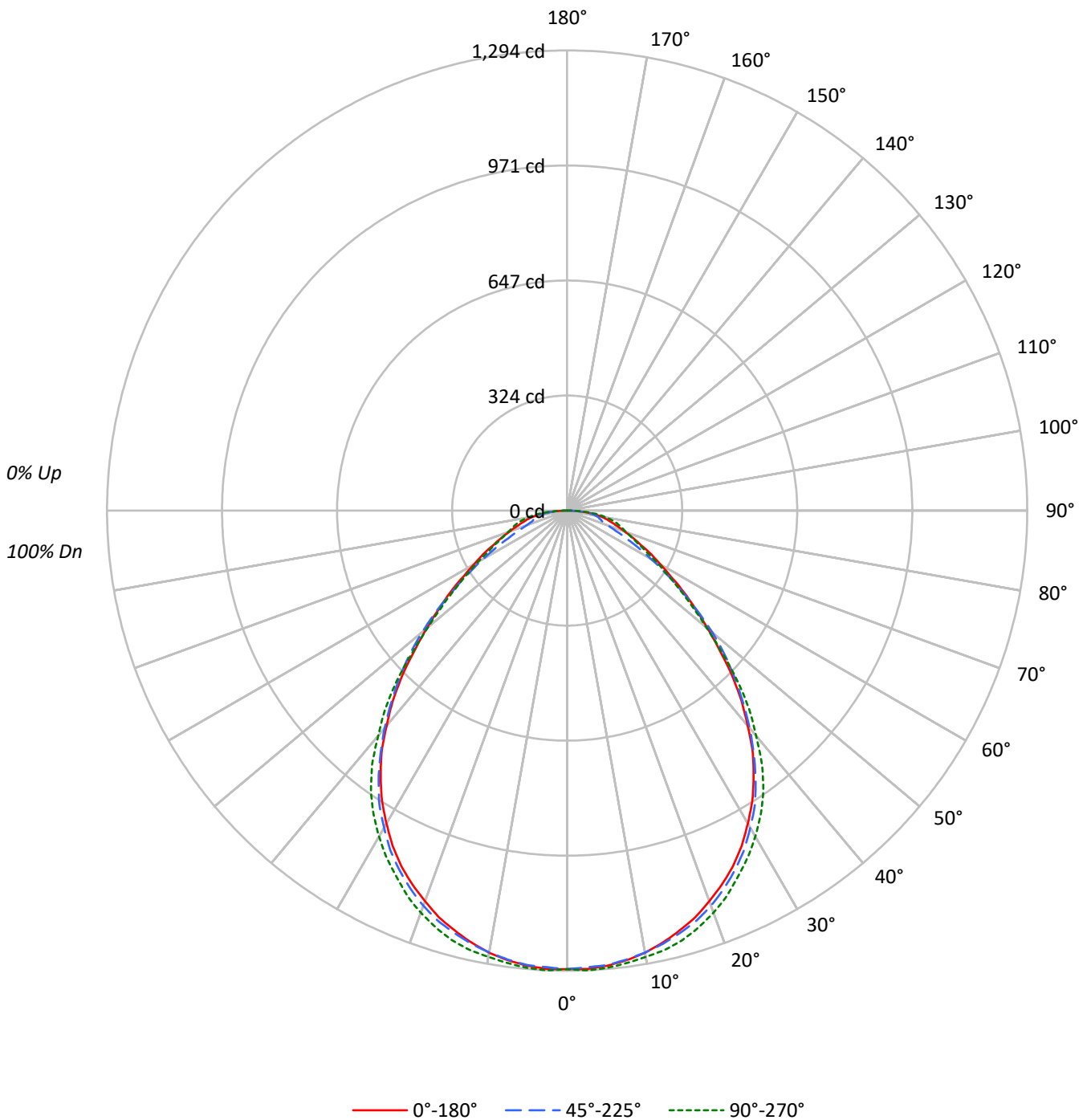
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2815.4 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 23.56
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: P214462
CATALOG NUMBER: 22GRLD2435R1

Luminous Intensity Polar Plot





TEST NUMBER: P214462

CATALOG NUMBER: 22GRLD2435R1

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	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					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76					74				
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66					64				
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58					56				
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51					49				
6	74	62	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	53	46	42	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	35	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					30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4129	4129	4129
5°	4130	4124	4149
10°	4106	4103	4144
15°	4053	4075	4147
20°	3983	4030	4102
25°	3899	3942	4014
30°	3758	3808	3913
35°	3573	3614	3760
40°	3303	3339	3456
45°	2967	3021	3068
50°	2566	2657	2539
55°	2239	2180	2151
60°	1939	1745	1863
65°	1733	1370	1673
70°	1608	1135	1650
75°	1605	1200	1833
80°	1776	1510	2066
85°	1852	1639	2337



TEST NUMBER: P214462

CATALOG NUMBER: 22GRLD2435R1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.0	4.3
10°-20°	347.5	12.3
20°-30°	514.0	18.3
30°-40°	580.0	20.6
40°-50°	511.3	18.2
50°-60°	350.7	12.5
60°-70°	207.0	7.4
70°-80°	129.2	4.6
80°-90°	53.9	1.9
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°	983.5	34.9
0°-40°	1563.4	55.5
0°-60°	2425.4	86.1
0°-90°	2815.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2815.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1289	1289	1289	1289	1289	
5°	1285	1282	1283	1287	1291	122
15°	1222	1224	1229	1244	1251	345
25°	1103	1107	1116	1130	1136	507
35°	914	922	924	947	962	569
45°	655	658	667	671	677	503
55°	401	391	390	377	385	360
65°	229	201	181	209	221	230
75°	130	117	97	136	148	139
85°	50	47	45	58	64	54
90°	0	0	0	0	0	



TEST NUMBER: P214462

CATALOG NUMBER: 22GRLD2435R1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1289.4	1289.4	1289.4	1289.4	1289.4
2.5°	1290.0	1286.7	1285.4	1290.7	1293.9
5°	1284.8	1282.1	1282.8	1287.4	1290.7
7.5°	1275.6	1273.6	1273.6	1280.2	1283.5
10°	1262.5	1261.8	1261.8	1269.7	1274.3
12.5°	1244.1	1244.8	1247.4	1257.9	1265.8
15°	1222.5	1223.8	1229.1	1244.1	1250.7
17.5°	1198.9	1198.9	1209.4	1221.2	1229.1
20°	1168.8	1170.8	1182.6	1195.7	1203.5
22.5°	1138.0	1141.3	1151.1	1166.2	1173.4
25°	1103.3	1107.2	1115.7	1130.1	1136.0
27.5°	1062.7	1067.9	1077.1	1087.6	1100.0
30°	1016.2	1024.0	1029.9	1044.3	1058.1
32.5°	969.0	976.2	982.7	997.8	1013.5
35°	913.9	921.8	924.4	946.7	961.8
37.5°	857.6	860.9	862.2	884.5	900.8
40°	790.1	796.7	798.6	816.3	826.8
42.5°	725.3	727.9	731.8	744.9	757.4
45°	655.2	658.4	667.0	670.9	677.4
47.5°	581.8	591.6	601.4	589.0	589.6
50°	515.0	522.8	533.3	509.7	509.7
52.5°	455.3	459.3	459.9	440.3	444.2
55°	401.0	391.1	390.5	377.4	385.2
57.5°	346.6	333.5	328.9	325.0	334.1
60°	302.7	279.1	272.5	278.4	290.9
62.5°	266.6	236.5	224.1	239.1	250.3
65°	228.7	201.1	180.8	209.0	220.8
67.5°	199.2	173.0	146.8	186.7	195.2
70°	171.7	151.3	121.2	169.7	176.2
72.5°	149.4	133.7	104.8	153.3	161.2
75°	129.7	116.6	97.0	135.6	148.1
77.5°	114.0	99.6	90.4	117.3	132.3
80°	96.3	81.9	81.9	98.3	112.0
82.5°	76.0	64.2	66.2	79.9	89.8
85°	50.4	47.2	44.6	58.3	63.6
87.5°	25.6	26.2	23.6	30.1	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)