

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: P214464

Luminaire Tested: **22GR4335D**

Issue Date: 3/3/2020



**Test Information**

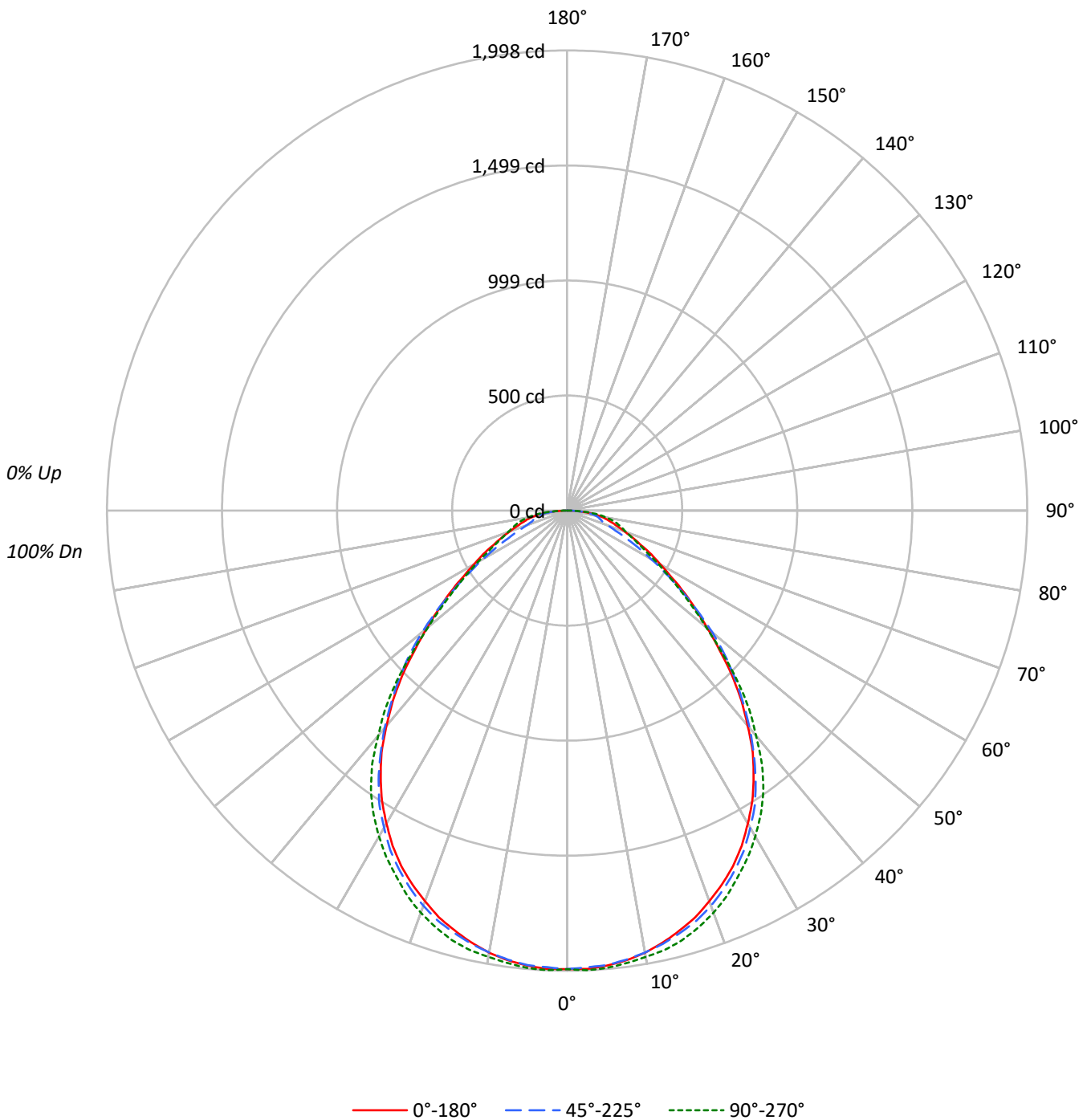
Test Method: LM-79-08  
Report Number: P214464  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR4335D  
Description: METALUX GR 2X2 LED TROFFER WITH A LENS  
Light Source: (84) 3500K CCT, 85 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4347.0 lumens  
Efficiency: N/A  
Efficacy: 108.4 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): 40.1  
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: P214464  
CATALOG NUMBER: 22GR4335D

### Luminous Intensity Polar Plot





TEST NUMBER: P214464  
 CATALOG NUMBER: 22GR4335D

**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					86			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30					30			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6376	6376	6376
5°	6377	6367	6406
10°	6339	6336	6398
15°	6258	6292	6402
20°	6150	6223	6333
25°	6019	6087	6198
30°	5802	5880	6041
35°	5517	5580	5806
40°	5100	5155	5337
45°	4582	4664	4737
50°	3961	4102	3921
55°	3457	3366	3321
60°	2993	2695	2876
65°	2675	2116	2583
70°	2481	1752	2548
75°	2478	1852	2829
80°	2742	2331	3191
85°	2862	2528	3605



TEST NUMBER: P214464  
 CATALOG NUMBER: 22GR4335D

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.4	4.3
10°-20°	536.6	12.3
20°-30°	793.6	18.3
30°-40°	895.5	20.6
40°-50°	789.4	18.2
50°-60°	541.5	12.5
60°-70°	319.5	7.4
70°-80°	199.4	4.6
80°-90°	83.1	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°	1518.5	34.9
0°-40°	2414.0	55.5
0°-60°	3744.9	86.1
0°-90°	4347.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4347.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1991	1991	1991	1991	1991	
5°	1984	1980	1981	1988	1993	188
15°	1888	1890	1898	1921	1931	532
25°	1704	1710	1723	1745	1754	782
35°	1411	1423	1427	1462	1485	879
45°	1012	1017	1030	1036	1046	777
55°	619	604	603	583	595	555
65°	353	311	279	323	341	356
75°	200	180	150	209	229	215
85°	78	73	69	90	98	84
90°	0	0	0	0	0	



TEST NUMBER: P214464  
 CATALOG NUMBER: 22GR4335D

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1990.8	1990.8	1990.8	1990.8	1990.8
2.5°	1991.8	1986.7	1984.7	1992.8	1997.8
5°	1983.7	1979.6	1980.7	1987.7	1992.8
7.5°	1969.5	1966.5	1966.5	1976.6	1981.7
10°	1949.3	1948.3	1948.3	1960.4	1967.5
12.5°	1921.0	1922.0	1926.0	1942.2	1954.4
15°	1887.6	1889.6	1897.7	1921.0	1931.1
17.5°	1851.2	1851.2	1867.4	1885.6	1897.7
20°	1804.6	1807.7	1825.9	1846.1	1858.3
22.5°	1757.1	1762.2	1777.3	1800.6	1811.7
25°	1703.5	1709.6	1722.7	1745.0	1754.1
27.5°	1640.8	1648.9	1663.0	1679.2	1698.4
30°	1568.9	1581.1	1590.2	1612.4	1633.7
32.5°	1496.1	1507.2	1517.4	1540.6	1564.9
35°	1411.1	1423.3	1427.3	1461.7	1485.0
37.5°	1324.1	1329.2	1331.2	1365.6	1390.9
40°	1220.0	1230.1	1233.1	1260.4	1276.6
42.5°	1119.8	1123.9	1129.9	1150.2	1169.4
45°	1011.6	1016.6	1029.8	1035.8	1046.0
47.5°	898.3	913.4	928.6	909.4	910.4
50°	795.1	807.2	823.4	787.0	787.0
52.5°	703.0	709.1	710.1	679.8	685.8
55°	619.1	603.9	602.9	582.7	594.8
57.5°	535.1	514.9	507.8	501.7	515.9
60°	467.3	430.9	420.8	429.9	449.1
62.5°	411.7	365.2	346.0	369.2	386.4
65°	353.0	310.6	279.2	322.7	340.9
67.5°	307.5	267.1	226.6	288.3	301.4
70°	265.0	233.7	187.1	262.0	272.1
72.5°	230.6	206.4	161.9	236.7	248.8
75°	200.3	180.1	149.7	209.4	228.6
77.5°	176.0	153.8	139.6	181.1	204.3
80°	148.7	126.4	126.4	151.7	173.0
82.5°	117.3	99.1	102.2	123.4	138.6
85°	77.9	72.8	68.8	90.0	98.1
87.5°	39.5	40.5	36.4	46.5	47.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)