

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: P214461

Luminaire Tested: **22GR2435D**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P214461
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: 22GR2435D
Description: METALUX GR 2X2 LED TROFFER WITH A LENS
Light Source: (84) 3500K CCT, 85 CRI LEDs
Ballast/Driver: -

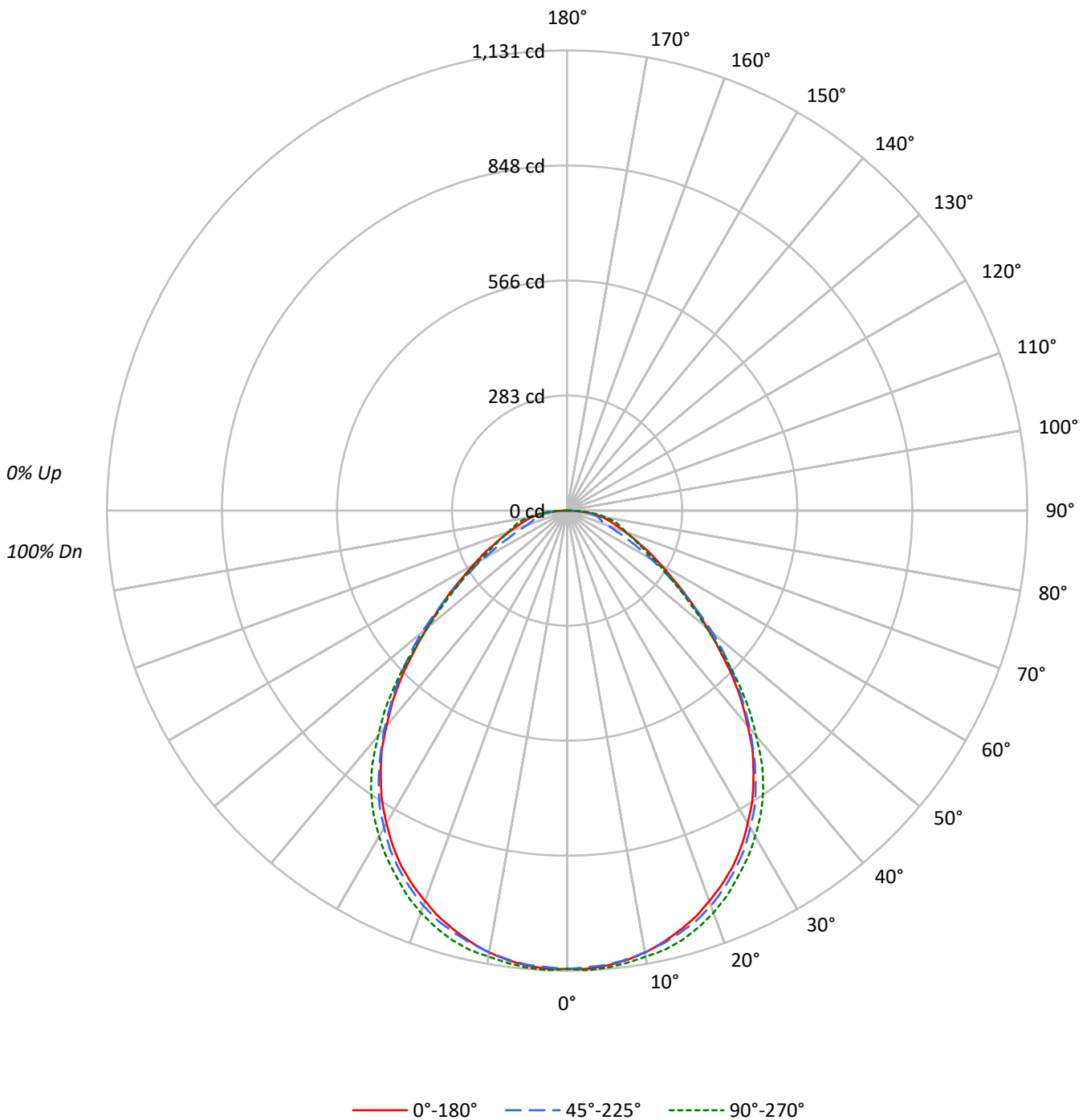
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2460.0 lumens
Efficiency: N/A
Efficacy: 123.0 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): 20
Input Voltage (V): 120
Input Current (A_{in}): 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	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°	3608	3608	3608
5°	3609	3603	3625
10°	3587	3585	3621
15°	3542	3560	3623
20°	3481	3522	3584
25°	3406	3445	3507
30°	3283	3328	3419
35°	3122	3158	3286
40°	2886	2917	3020
45°	2593	2640	2681
50°	2241	2322	2219
55°	1956	1905	1879
60°	1694	1525	1628
65°	1514	1197	1462
70°	1405	992	1442
75°	1402	1048	1601
80°	1553	1320	1806
85°	1620	1429	2039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.6	4.3
10°-20°	303.6	12.3
20°-30°	449.1	18.3
30°-40°	506.8	20.6
40°-50°	446.7	18.2
50°-60°	306.5	12.5
60°-70°	180.8	7.4
70°-80°	112.9	4.6
80°-90°	47.0	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°	859.3	34.9
0°-40°	1366.1	55.5
0°-60°	2119.3	86.1
0°-90°	2460.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2460.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1127	1127	1127	1127	1127	
5°	1123	1120	1121	1125	1128	107
15°	1068	1069	1074	1087	1093	301
25°	964	967	975	988	993	443
35°	799	805	808	827	840	498
45°	572	575	583	586	592	440
55°	350	342	341	330	337	314
65°	200	176	158	183	193	201
75°	113	102	85	118	129	122
85°	44	41	39	51	56	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1126.6	1126.6	1126.6	1126.6	1126.6
2.5°	1127.2	1124.3	1123.2	1127.7	1130.6
5°	1122.6	1120.3	1120.9	1124.9	1127.7
7.5°	1114.6	1112.9	1112.9	1118.6	1121.4
10°	1103.1	1102.5	1102.5	1109.4	1113.4
12.5°	1087.1	1087.7	1090.0	1099.1	1106.0
15°	1068.2	1069.3	1073.9	1087.1	1092.8
17.5°	1047.6	1047.6	1056.8	1067.1	1073.9
20°	1021.3	1023.0	1033.3	1044.7	1051.6
22.5°	994.4	997.2	1005.8	1019.0	1025.3
25°	964.0	967.4	974.9	987.5	992.6
27.5°	928.5	933.1	941.1	950.3	961.2
30°	887.9	894.7	899.9	912.5	924.5
32.5°	846.7	853.0	858.7	871.8	885.6
35°	798.6	805.4	807.7	827.2	840.4
37.5°	749.3	752.2	753.4	772.8	787.1
40°	690.4	696.1	697.8	713.3	722.4
42.5°	633.7	636.0	639.4	650.9	661.8
45°	572.5	575.3	582.8	586.2	591.9
47.5°	508.3	516.9	525.5	514.6	515.2
50°	449.9	456.8	466.0	445.4	445.4
52.5°	397.9	401.3	401.9	384.7	388.1
55°	350.3	341.8	341.2	329.7	336.6
57.5°	302.8	291.4	287.4	283.9	292.0
60°	264.5	243.9	238.1	243.3	254.2
62.5°	233.0	206.7	195.8	208.9	218.7
65°	199.8	175.7	158.0	182.6	192.9
67.5°	174.0	151.1	128.2	163.1	170.6
70°	150.0	132.2	105.9	148.3	154.0
72.5°	130.5	116.8	91.6	134.0	140.8
75°	113.3	101.9	84.7	118.5	129.4
77.5°	99.6	87.0	79.0	102.5	115.6
80°	84.2	71.6	71.6	85.9	97.9
82.5°	66.4	56.1	57.8	69.8	78.4
85°	44.1	41.2	38.9	50.9	55.5
87.5°	22.3	22.9	20.6	26.3	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)