

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: P214466

Luminaire Tested: **22GR3240D**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P214466
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: 22GR3240D
Description: METALUX GR 2X2 LED TROFFER WITH A LENS
Light Source: (84) 4000K CCT, 85 CRI LEDs
Ballast/Driver: -

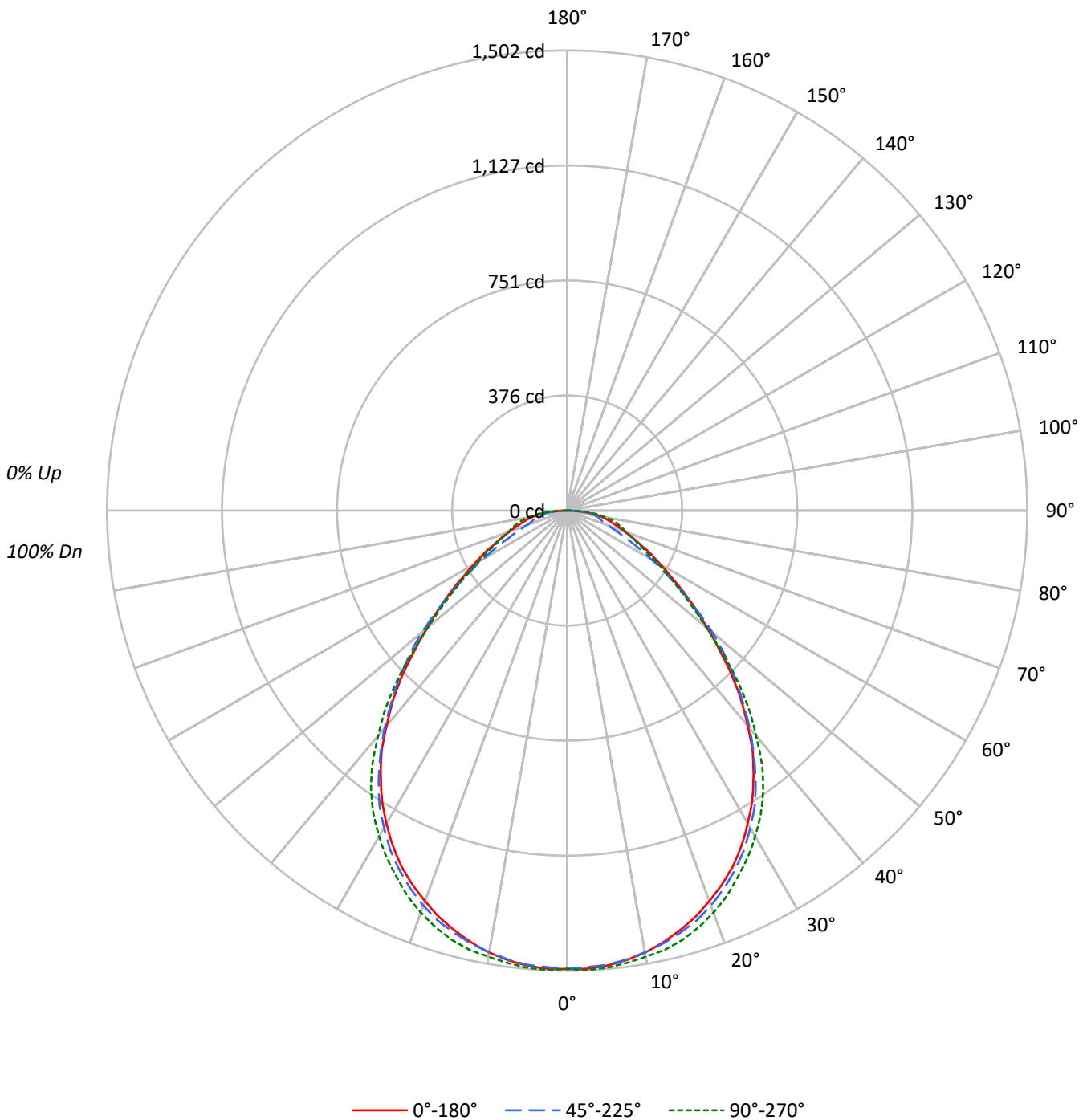
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3267.0 lumens
Efficiency: N/A
Efficacy: 117.9 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): 27.7
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	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°	4792	4792	4792
5°	4793	4785	4815
10°	4764	4761	4809
15°	4703	4729	4812
20°	4622	4676	4760
25°	4524	4575	4658
30°	4360	4419	4540
35°	4146	4194	4363
40°	3833	3874	4011
45°	3443	3505	3560
50°	2977	3083	2947
55°	2598	2530	2496
60°	2249	2026	2162
65°	2010	1590	1941
70°	1865	1317	1915
75°	1862	1392	2126
80°	2062	1752	2398
85°	2150	1900	2708



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.6	4.3
10°-20°	403.2	12.3
20°-30°	596.4	18.3
30°-40°	673.0	20.6
40°-50°	593.3	18.2
50°-60°	407.0	12.5
60°-70°	240.2	7.4
70°-80°	149.9	4.6
80°-90°	62.5	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°	1141.2	34.9
0°-40°	1814.2	55.5
0°-60°	2814.5	86.1
0°-90°	3267.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3267.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1496	1496	1496	1496	1496	
5°	1491	1488	1489	1494	1498	141
15°	1419	1420	1426	1444	1451	400
25°	1280	1285	1295	1311	1318	588
35°	1060	1070	1073	1099	1116	661
45°	760	764	774	778	786	584
55°	465	454	453	438	447	417
65°	265	233	210	242	256	267
75°	150	135	112	157	172	161
85°	58	55	52	68	74	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1496.2	1496.2	1496.2	1496.2	1496.2
2.5°	1496.9	1493.1	1491.6	1497.7	1501.5
5°	1490.8	1487.8	1488.6	1493.9	1497.7
7.5°	1480.2	1477.9	1477.9	1485.5	1489.3
10°	1465.0	1464.2	1464.2	1473.4	1478.7
12.5°	1443.7	1444.5	1447.5	1459.7	1468.8
15°	1418.6	1420.1	1426.2	1443.7	1451.3
17.5°	1391.3	1391.3	1403.4	1417.1	1426.2
20°	1356.3	1358.6	1372.2	1387.5	1396.6
22.5°	1320.6	1324.4	1335.8	1353.2	1361.6
25°	1280.3	1284.8	1294.7	1311.4	1318.3
27.5°	1233.1	1239.2	1249.8	1262.0	1276.5
30°	1179.1	1188.3	1195.1	1211.8	1227.8
32.5°	1124.4	1132.8	1140.4	1157.9	1176.1
35°	1060.5	1069.7	1072.7	1098.6	1116.0
37.5°	995.2	999.0	1000.5	1026.3	1045.3
40°	916.9	924.5	926.7	947.3	959.4
42.5°	841.6	844.6	849.2	864.4	878.8
45°	760.2	764.0	773.9	778.5	786.1
47.5°	675.1	686.5	697.9	683.5	684.2
50°	597.6	606.7	618.8	591.5	591.5
52.5°	528.4	532.9	533.7	510.9	515.4
55°	465.3	453.9	453.1	437.9	447.0
57.5°	402.2	387.0	381.6	377.1	387.7
60°	351.2	323.9	316.3	323.1	337.6
62.5°	309.4	274.4	260.0	277.5	290.4
65°	265.3	233.4	209.8	242.5	256.2
67.5°	231.1	200.7	170.3	216.7	226.6
70°	199.2	175.6	140.6	196.9	204.5
72.5°	173.3	155.1	121.6	177.9	187.0
75°	150.5	135.3	112.5	157.4	171.8
77.5°	132.3	115.6	104.9	136.1	153.6
80°	111.8	95.0	95.0	114.0	130.0
82.5°	88.2	74.5	76.8	92.8	104.2
85°	58.5	54.7	51.7	67.7	73.7
87.5°	29.6	30.4	27.4	35.0	35.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)