

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: P213749

Luminaire Tested: **22GR-LD5-40-A-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213749
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-40-A-UNV-L935-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3473.1 lumens
Efficiency: N/A
Efficacy: 89.5 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

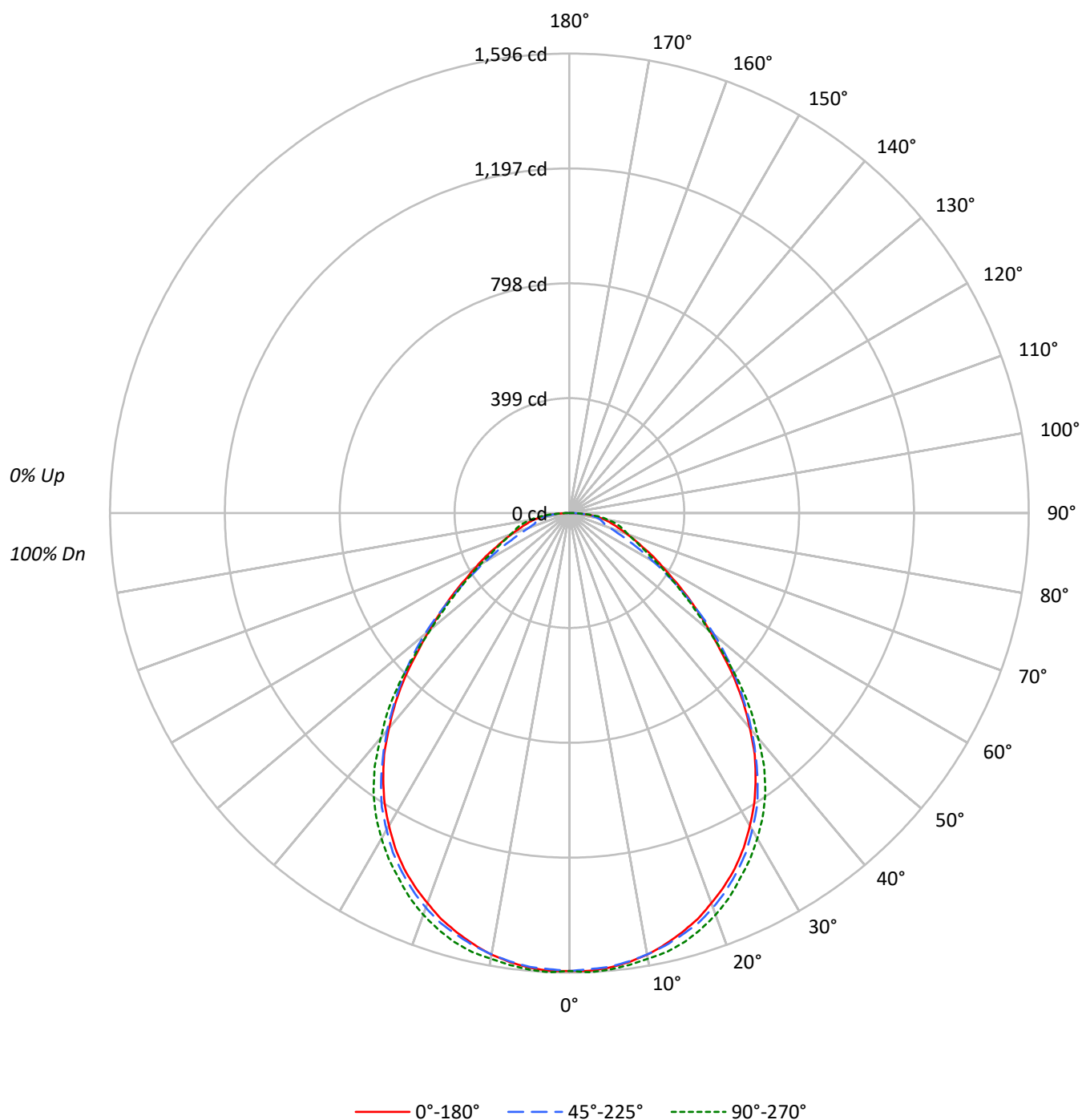
Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		86
2	101	94	87	82	99	92	86	81	88	84	79		85	81	78		74
3	93	84	76	70	91	82	75	70	79	73	68		76	71	67		64
4	86	75	67	61	84	74	66	60	71	65	60		69	63	59		56
5	80	68	59	53	78	67	59	53	65	58	53		63	57	52		49
6	74	62	53	47	72	61	53	47	59	52	47		57	51	46		44
7	69	56	48	42	67	55	48	42	54	47	42		53	46	42		39
8	64	52	44	38	63	51	43	38	50	43	38		48	42	38		36
9	60	48	40	35	59	47	40	35	46	39	34		45	39	34		32
10	57	44	37	32	55	44	36	32	43	36	31		42	36	31		30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5094	5094	5094
5°	5095	5087	5118
10°	5065	5062	5112
15°	5000	5027	5115
20°	4914	4972	5060
25°	4809	4864	4952
30°	4635	4698	4827
35°	4408	4458	4638
40°	4075	4119	4264
45°	3660	3726	3785
50°	3165	3278	3132
55°	2762	2690	2653
60°	2392	2153	2299
65°	2137	1690	2063
70°	1982	1400	2036
75°	1981	1480	2261
80°	2191	1865	2549
85°	2286	2021	2881



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.5	4.3
10°-20°	428.7	12.3
20°-30°	634.0	18.3
30°-40°	715.5	20.6
40°-50°	630.7	18.2
50°-60°	432.7	12.5
60°-70°	255.3	7.4
70°-80°	159.3	4.6
80°-90°	66.4	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°	1213.2	34.9
0°-40°	1928.7	55.5
0°-60°	2992.1	86.1
0°-90°	3473.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3473.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1590	1590	1590	1590	1590	
5°	1585	1582	1582	1588	1592	150
15°	1508	1510	1516	1535	1543	425
25°	1361	1366	1376	1394	1401	625
35°	1127	1137	1140	1168	1186	703
45°	808	812	823	828	836	621
55°	495	482	482	466	475	444
65°	282	248	223	258	272	284
75°	160	144	120	167	183	172
85°	62	58	55	72	78	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1590.5	1590.5	1590.5	1590.5	1590.5
2.5°	1591.4	1587.3	1585.7	1592.1	1596.2
5°	1584.9	1581.7	1582.4	1588.1	1592.1
7.5°	1573.6	1571.1	1571.1	1579.2	1583.3
10°	1557.5	1556.6	1556.6	1566.3	1572.0
12.5°	1534.8	1535.6	1538.8	1551.8	1561.4
15°	1508.2	1509.8	1516.2	1534.8	1542.8
17.5°	1479.0	1479.0	1491.9	1506.5	1516.2
20°	1441.9	1444.2	1458.9	1475.0	1484.7
22.5°	1403.9	1407.9	1420.0	1438.6	1447.5
25°	1361.0	1365.9	1376.4	1394.2	1401.4
27.5°	1311.0	1317.4	1328.7	1341.6	1356.9
30°	1253.5	1263.3	1270.5	1288.3	1305.3
32.5°	1195.4	1204.2	1212.4	1230.9	1250.3
35°	1127.4	1137.1	1140.4	1167.9	1186.4
37.5°	1057.9	1062.0	1063.6	1091.1	1111.3
40°	974.7	982.8	985.2	1007.0	1020.0
42.5°	894.7	897.9	902.8	918.9	934.3
45°	808.2	812.3	822.7	827.6	835.7
47.5°	717.7	729.8	742.0	726.6	727.4
50°	635.3	645.0	657.9	628.7	628.7
52.5°	561.7	566.5	567.4	543.2	548.0
55°	494.6	482.5	481.7	465.5	475.2
57.5°	427.6	411.4	405.7	400.9	412.2
60°	373.4	344.3	336.2	343.5	358.9
62.5°	329.0	291.8	276.4	295.0	308.7
65°	282.0	248.1	223.0	257.8	272.3
67.5°	245.7	213.4	181.0	230.4	240.8
70°	211.7	186.7	149.5	209.4	217.4
72.5°	184.3	164.9	129.3	189.1	198.8
75°	160.1	143.8	119.6	167.3	182.7
77.5°	140.6	122.8	111.5	144.7	163.3
80°	118.8	101.1	101.1	121.2	138.2
82.5°	93.8	79.2	81.6	98.6	110.8
85°	62.2	58.2	55.0	71.9	78.4
87.5°	31.5	32.3	29.1	37.1	38.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)