

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: P225819

Luminaire Tested: **22GR-LD5-32-F1-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35595)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-32-F1-UNV-L950-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3023.9 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.18 / 1.24
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

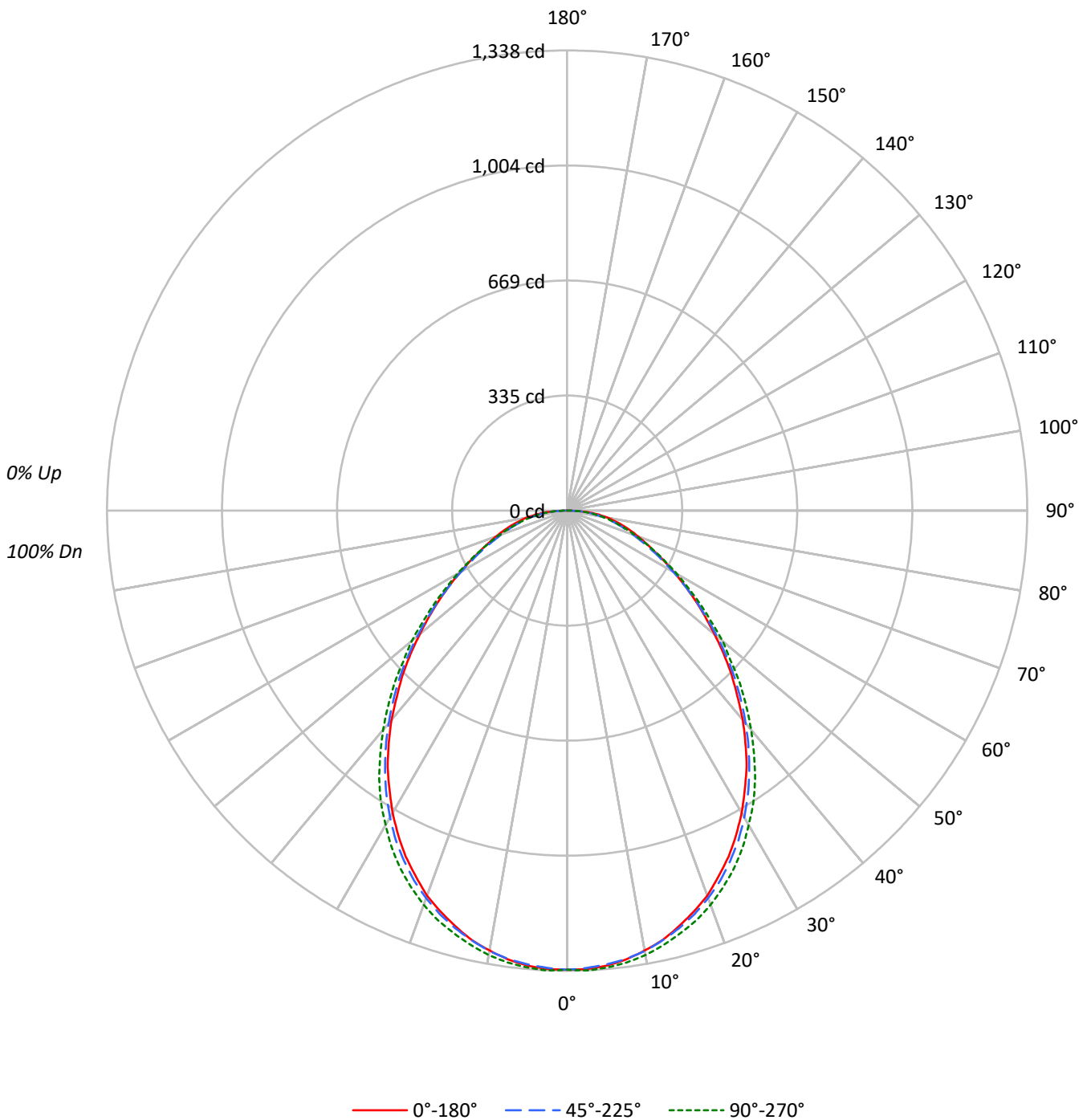
Input Watts (W): 29.95
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	74	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	45	40	50	44	39	38
8	63	50	42	36	62	49	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4276	4276	4276
5°	4269	4259	4287
10°	4224	4229	4267
15°	4153	4169	4219
20°	4061	4087	4157
25°	3924	3967	4056
30°	3752	3808	3904
35°	3557	3609	3726
40°	3320	3375	3479
45°	3063	3122	3216
50°	2785	2837	2937
55°	2532	2552	2629
60°	2296	2279	2363
65°	2113	2055	2139
70°	2052	1903	1974
75°	2076	1862	1888
80°	2213	1907	1931
85°	2447	2039	2014



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.0	4.2
10°-20°	354.9	11.7
20°-30°	517.4	17.1
30°-40°	578.4	19.1
40°-50°	531.9	17.6
50°-60°	412.1	13.6
60°-70°	276.2	9.1
70°-80°	165.3	5.5
80°-90°	61.8	2.0
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°	998.3	33.0
0°-40°	1576.6	52.1
0°-60°	2520.6	83.4
0°-90°	3023.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3023.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1335	1335	1335	1335	1335	
5°	1328	1325	1325	1330	1334	126
15°	1252	1254	1257	1267	1273	353
25°	1110	1113	1123	1139	1148	510
35°	910	911	923	941	953	567
45°	676	678	689	700	710	521
55°	454	454	457	464	471	407
65°	279	277	271	274	282	280
75°	168	161	150	149	153	178
85°	67	67	56	52	55	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1335.1	1335.1	1335.1	1335.1	1335.1
2.5°	1334.4	1331.6	1330.9	1335.1	1338.5
5°	1328.1	1325.4	1324.7	1330.2	1333.7
7.5°	1316.3	1314.3	1315.0	1320.5	1325.4
10°	1299.0	1298.3	1300.4	1307.3	1312.2
12.5°	1279.6	1278.2	1280.3	1289.3	1294.2
15°	1252.5	1254.0	1257.4	1267.1	1272.6
17.5°	1222.8	1224.1	1230.3	1240.1	1249.1
20°	1191.6	1190.8	1199.1	1212.3	1219.9
22.5°	1150.6	1154.1	1163.8	1177.6	1185.3
25°	1110.4	1113.1	1122.8	1138.8	1147.8
27.5°	1063.9	1068.8	1079.2	1094.5	1104.8
30°	1014.6	1018.8	1029.9	1047.2	1055.6
32.5°	961.2	966.8	978.6	997.4	1007.7
35°	909.9	911.4	923.1	941.1	953.0
37.5°	851.7	855.1	866.2	886.3	892.6
40°	794.2	796.9	807.3	823.9	832.3
42.5°	732.4	737.3	748.4	760.9	770.5
45°	676.2	678.3	689.4	699.8	710.2
47.5°	617.3	619.3	629.1	640.2	644.3
50°	559.0	561.7	569.4	580.5	589.5
52.5°	504.9	506.3	509.8	522.2	526.4
55°	453.5	454.3	457.1	464.0	470.9
57.5°	405.0	404.3	403.7	409.9	416.1
60°	358.5	357.2	355.8	360.6	369.0
62.5°	317.7	316.2	310.7	316.2	323.2
65°	278.8	276.7	271.2	273.9	282.3
67.5°	248.2	244.2	235.1	238.6	244.8
70°	219.1	213.6	203.2	206.0	210.8
72.5°	193.5	185.2	176.2	176.8	181.7
75°	167.8	160.9	150.5	149.1	152.6
77.5°	143.6	138.0	126.9	124.9	127.6
80°	120.0	114.5	103.4	99.2	104.7
82.5°	94.4	92.3	79.7	77.0	79.1
85°	66.6	67.2	55.5	52.1	54.8
87.5°	33.9	35.4	28.4	27.8	27.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)