

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: P225797

Luminaire Tested: **22GR-LD5-24-F1-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225797
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-LD5-24-F1-UNV-L930-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: 1981.9 lumens
Efficiency: N/A
Efficacy: 103.1 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

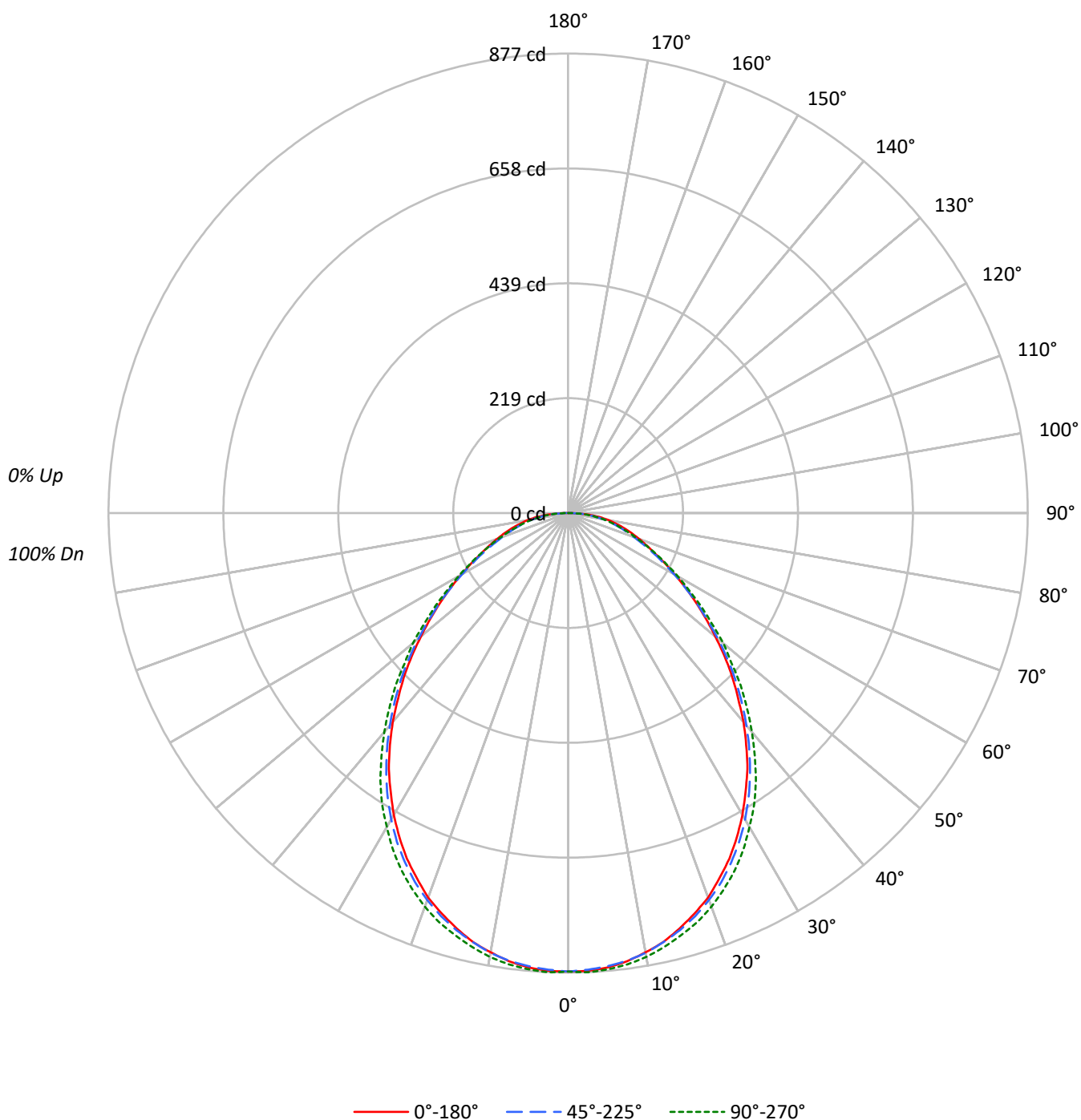
Input Watts (W): 19.219
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	109	105	101	97	107	103	99	96		98	95	93			95	92	90			91
2	100	93	86	81	98	91	85	80		87	82	78			84	80	76			81
3	92	82	74	68	90	81	73	68		78	72	67			75	70	65			72
4	85	73	65	59	83	72	64	58		70	63	58			67	62	57			65
5	78	66	58	51	76	65	57	51		63	56	51			61	55	50			59
6	73	60	51	45	71	59	51	45		57	50	45			56	49	44			54
7	68	55	46	40	66	54	46	40		52	45	40			51	45	40			50
8	63	50	42	36	62	49	42	36		48	41	36			47	41	36			46
9	59	46	38	33	58	46	38	33		45	38	33			43	37	33			42
10	56	43	35	30	54	42	35	30		41	35	30			40	34	30			40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2802	2802	2802
5°	2798	2791	2810
10°	2769	2772	2797
15°	2722	2732	2765
20°	2662	2679	2725
25°	2572	2600	2658
30°	2459	2496	2558
35°	2332	2365	2442
40°	2176	2212	2280
45°	2007	2046	2108
50°	1825	1859	1925
55°	1659	1672	1723
60°	1505	1494	1549
65°	1384	1347	1402
70°	1346	1247	1294
75°	1361	1220	1237
80°	1450	1249	1265
85°	1602	1334	1319



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.6	4.2
10°-20°	232.6	11.7
20°-30°	339.1	17.1
30°-40°	379.1	19.1
40°-50°	348.6	17.6
50°-60°	270.1	13.6
60°-70°	181.1	9.1
70°-80°	108.3	5.5
80°-90°	40.5	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°	654.3	33.0
0°-40°	1033.4	52.1
0°-60°	1652.1	83.4
0°-90°	1981.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1981.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	875	875	875	875	875	
5°	870	869	868	872	874	82
15°	821	822	824	830	834	231
25°	728	730	736	746	752	334
35°	596	597	605	617	625	372
45°	443	445	452	459	466	341
55°	297	298	300	304	309	267
65°	183	181	178	180	185	184
75°	110	106	99	98	100	117
85°	44	44	36	34	36	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	875.0	875.0	875.0	875.0	875.0
2.5°	874.6	872.7	872.3	875.0	877.3
5°	870.5	868.7	868.2	871.8	874.1
7.5°	862.8	861.4	861.8	865.5	868.7
10°	851.4	850.9	852.3	856.8	860.0
12.5°	838.7	837.8	839.1	845.0	848.2
15°	821.0	821.9	824.1	830.5	834.1
17.5°	801.4	802.3	806.4	812.8	818.7
20°	781.0	780.5	786.0	794.6	799.6
22.5°	754.2	756.4	762.8	771.9	776.9
25°	727.8	729.6	735.9	746.4	752.3
27.5°	697.3	700.4	707.3	717.3	724.1
30°	665.0	667.7	675.0	686.4	691.8
32.5°	630.0	633.7	641.4	653.7	660.5
35°	596.4	597.3	605.0	616.8	624.6
37.5°	558.2	560.5	567.8	581.0	585.0
40°	520.5	522.3	529.1	540.1	545.5
42.5°	480.0	483.2	490.4	498.6	505.0
45°	443.2	444.6	451.8	458.6	465.5
47.5°	404.6	405.9	412.3	419.6	422.3
50°	366.4	368.2	373.2	380.5	386.4
52.5°	331.0	331.9	334.1	342.3	345.0
55°	297.2	297.7	299.5	304.1	308.6
57.5°	265.4	265.0	264.5	268.6	272.7
60°	235.0	234.1	233.2	236.4	241.8
62.5°	208.2	207.3	203.6	207.3	211.8
65°	182.7	181.4	177.7	179.6	185.0
67.5°	162.8	160.0	154.1	156.4	160.5
70°	143.7	140.0	133.2	135.0	138.2
72.5°	126.9	121.4	115.5	115.9	119.1
75°	110.0	105.5	98.6	97.7	100.0
77.5°	94.1	90.4	83.1	81.8	83.6
80°	78.6	75.0	67.7	65.0	68.6
82.5°	61.8	60.4	52.2	50.4	51.8
85°	43.6	44.1	36.3	34.1	35.9
87.5°	22.3	23.2	18.6	18.2	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)