

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: P225804

Luminaire Tested: **22GR-LD5-24-F1-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225804
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-L935-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: 2090.1 lumens
Efficiency: N/A
Efficacy: 108.8 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

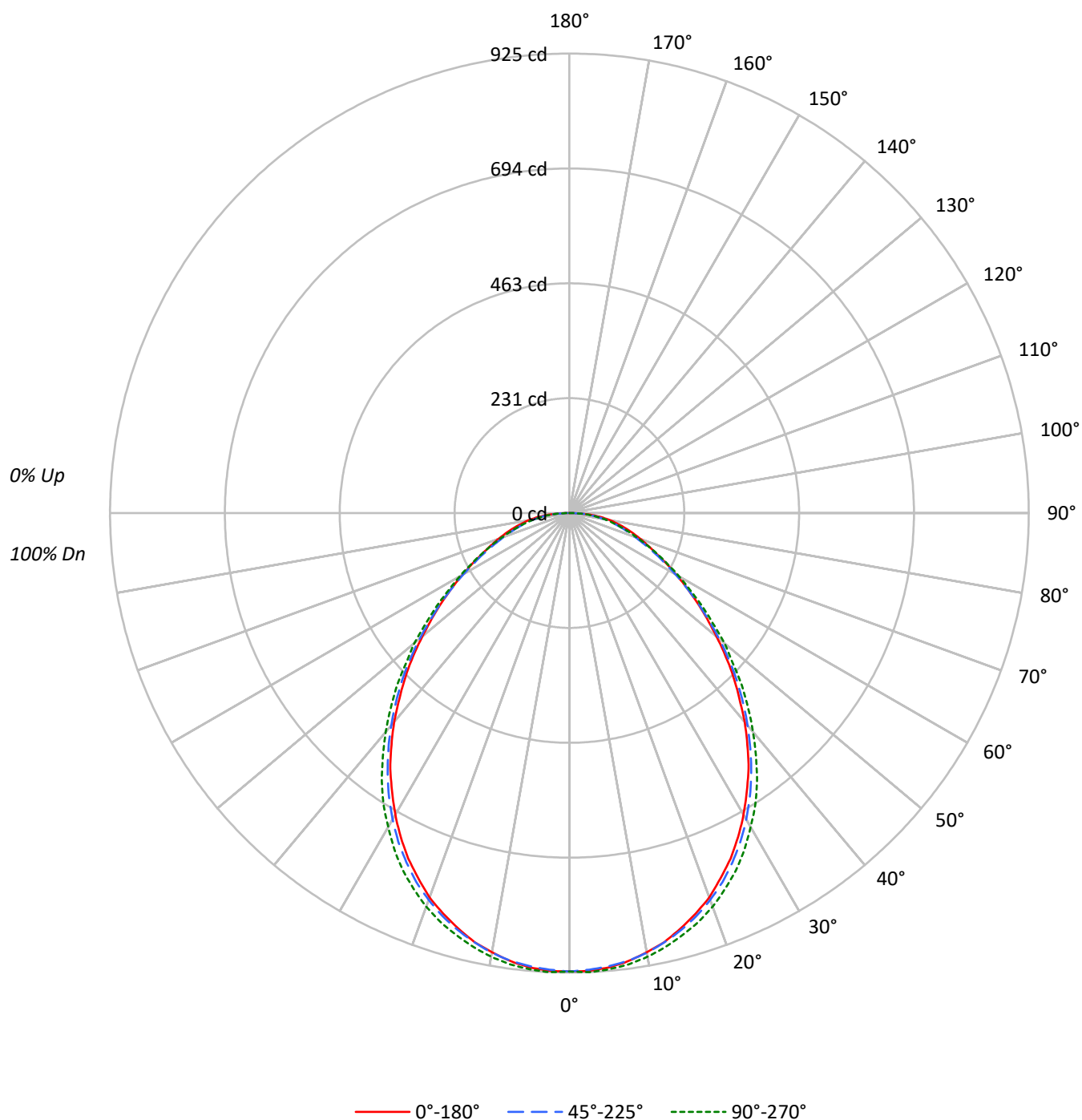
Input Watts (W): 19.219
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	103	99	96		98	95	93		95	92	90		91	89	87
2	100	93	86	81	98	91	85	80		87	82	78		84	80	76		81	78	74
3	92	82	74	68	90	81	73	68		78	72	67		75	70	65		72	68	64
4	85	73	65	59	83	72	64	58		70	63	58		67	62	57		65	60	56
5	78	66	58	51	76	65	57	51		63	56	51		61	55	50		59	54	49
6	73	60	51	45	71	59	51	45		57	50	45		56	49	44		54	48	44
7	68	55	46	40	66	54	46	40		52	45	40		51	45	40		50	44	39
8	63	50	42	36	62	49	42	36		48	41	36		47	41	36		46	40	36
9	59	46	38	33	58	46	38	33		45	38	33		43	37	33		42	37	32
10	56	43	35	30	54	42	35	30		41	35	30		40	34	30		40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2955	2955	2955
5°	2951	2943	2963
10°	2920	2923	2949
15°	2870	2881	2917
20°	2807	2825	2874
25°	2712	2742	2804
30°	2593	2633	2698
35°	2459	2495	2575
40°	2295	2333	2405
45°	2117	2158	2223
50°	1925	1961	2030
55°	1750	1764	1817
60°	1588	1575	1633
65°	1460	1420	1478
70°	1419	1315	1364
75°	1435	1287	1305
80°	1531	1317	1335
85°	1690	1407	1393



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	4.2
10°-20°	245.3	11.7
20°-30°	357.6	17.1
30°-40°	399.8	19.1
40°-50°	367.7	17.6
50°-60°	284.8	13.6
60°-70°	190.9	9.1
70°-80°	114.2	5.5
80°-90°	42.7	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°	690.0	33.0
0°-40°	1089.8	52.1
0°-60°	1742.3	83.4
0°-90°	2090.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2090.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	923	923	923	923	923	
5°	918	916	916	919	922	87
15°	866	867	869	876	880	244
25°	768	769	776	787	793	353
35°	629	630	638	650	659	392
45°	467	469	476	484	491	360
55°	314	314	316	321	326	281
65°	193	191	187	189	195	194
75°	116	111	104	103	106	123
85°	46	46	38	36	38	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	922.8	922.8	922.8	922.8	922.8
2.5°	922.3	920.4	920.0	922.8	925.2
5°	918.0	916.1	915.6	919.4	921.8
7.5°	909.8	908.4	908.9	912.7	916.1
10°	897.9	897.4	898.9	903.6	907.0
12.5°	884.4	883.5	884.9	891.1	894.5
15°	865.7	866.7	869.1	875.8	879.7
17.5°	845.2	846.1	850.4	857.1	863.3
20°	823.6	823.1	828.8	837.9	843.2
22.5°	795.3	797.7	804.4	814.0	819.2
25°	767.5	769.4	776.1	787.2	793.4
27.5°	735.3	738.7	746.0	756.5	763.6
30°	701.3	704.2	711.9	723.9	729.6
32.5°	664.4	668.3	676.4	689.4	696.6
35°	628.9	629.9	638.1	650.5	658.7
37.5°	588.7	591.1	598.7	612.7	616.9
40°	548.9	550.8	558.0	569.5	575.3
42.5°	506.3	509.6	517.2	525.9	532.6
45°	467.4	468.9	476.5	483.7	490.9
47.5°	426.6	428.1	434.8	442.5	445.3
50°	386.4	388.3	393.6	401.3	407.5
52.5°	349.0	349.9	352.3	361.0	363.9
55°	313.5	314.0	315.9	320.7	325.5
57.5°	280.0	279.5	279.0	283.3	287.6
60°	247.9	246.8	245.9	249.3	255.0
62.5°	219.6	218.6	214.8	218.6	223.4
65°	192.7	191.2	187.4	189.4	195.1
67.5°	171.6	168.7	162.5	164.9	169.2
70°	151.5	147.6	140.4	142.4	145.7
72.5°	133.8	128.0	121.8	122.2	125.6
75°	116.0	111.2	104.0	103.1	105.5
77.5°	99.2	95.4	87.7	86.3	88.2
80°	83.0	79.1	71.4	68.5	72.4
82.5°	65.2	63.8	55.2	53.2	54.7
85°	46.0	46.5	38.3	36.0	37.9
87.5°	23.5	24.5	19.6	19.2	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)