

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: P225799

Luminaire Tested: **22GR-LD5-32-F1-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225799
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-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: 2634.6 lumens
Efficiency: N/A
Efficacy: 88.0 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

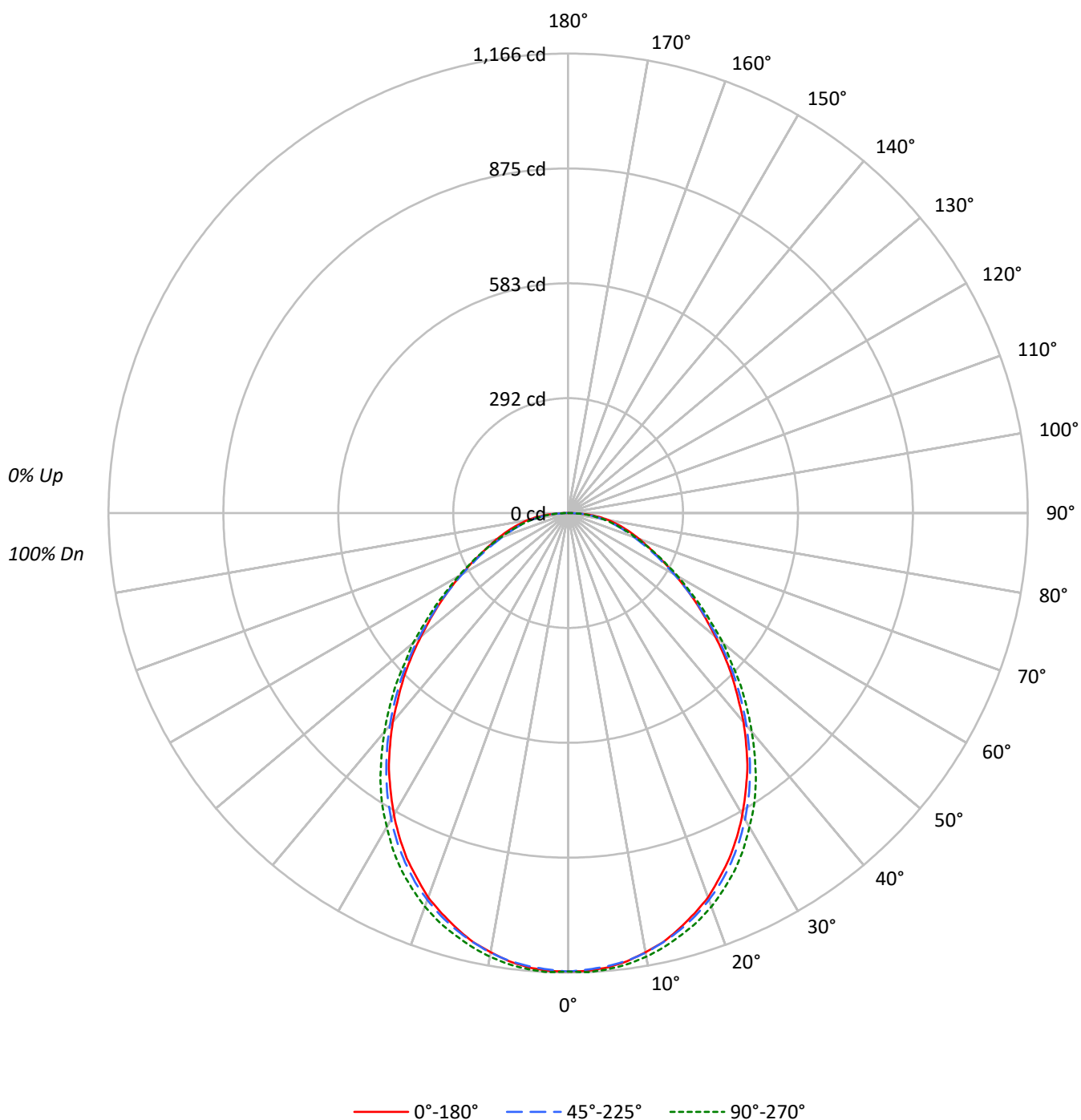
Input Watts (W): 29.95
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	3725	3725	3725
5°	3720	3710	3736
10°	3680	3684	3718
15°	3618	3632	3676
20°	3538	3561	3622
25°	3418	3457	3534
30°	3269	3318	3401
35°	3099	3144	3246
40°	2893	2941	3031
45°	2668	2720	2803
50°	2427	2472	2559
55°	2207	2223	2291
60°	2001	1986	2059
65°	1841	1790	1863
70°	1788	1657	1720
75°	1809	1622	1644
80°	1929	1660	1684
85°	2131	1778	1753



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.7	4.2
10°-20°	309.2	11.7
20°-30°	450.8	17.1
30°-40°	503.9	19.1
40°-50°	463.4	17.6
50°-60°	359.0	13.6
60°-70°	240.7	9.1
70°-80°	144.0	5.5
80°-90°	53.8	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°	869.7	33.0
0°-40°	1373.7	52.1
0°-60°	2196.1	83.4
0°-90°	2634.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2634.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1163	1163	1163	1163	1163	
5°	1157	1155	1154	1159	1162	110
15°	1091	1092	1096	1104	1109	307
25°	967	970	978	992	1000	444
35°	793	794	804	820	830	494
45°	589	591	601	610	619	454
55°	395	396	398	404	410	355
65°	243	241	236	239	246	244
75°	146	140	131	130	133	155
85°	58	59	48	45	48	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1163.3	1163.3	1163.3	1163.3	1163.3
2.5°	1162.6	1160.2	1159.6	1163.3	1166.2
5°	1157.2	1154.7	1154.1	1159.0	1162.0
7.5°	1146.9	1145.0	1145.7	1150.5	1154.7
10°	1131.8	1131.2	1133.0	1139.1	1143.2
12.5°	1114.9	1113.6	1115.4	1123.3	1127.6
15°	1091.3	1092.5	1095.5	1104.0	1108.8
17.5°	1065.3	1066.5	1072.0	1080.4	1088.3
20°	1038.1	1037.5	1044.8	1056.2	1062.9
22.5°	1002.4	1005.5	1013.9	1026.1	1032.7
25°	967.4	969.8	978.3	992.2	1000.1
27.5°	926.9	931.2	940.2	953.5	962.6
30°	884.0	887.6	897.3	912.4	919.7
32.5°	837.5	842.4	852.6	869.0	878.0
35°	792.8	794.0	804.3	820.0	830.2
37.5°	742.0	745.1	754.7	772.3	777.7
40°	691.9	694.3	703.4	717.9	725.1
42.5°	638.1	642.3	652.0	662.9	671.3
45°	589.2	591.0	600.6	609.7	618.8
47.5°	537.8	539.6	548.1	557.8	561.4
50°	487.1	489.5	496.1	505.8	513.6
52.5°	439.9	441.1	444.1	455.0	458.6
55°	395.2	395.8	398.2	404.3	410.3
57.5°	352.9	352.3	351.7	357.1	362.5
60°	312.4	311.2	310.0	314.2	321.4
62.5°	276.8	275.5	270.7	275.5	281.6
65°	242.9	241.1	236.2	238.7	245.9
67.5°	216.3	212.7	204.8	207.9	213.3
70°	191.0	186.1	177.0	179.5	183.7
72.5°	168.6	161.4	153.5	154.1	158.3
75°	146.2	140.2	131.1	129.9	132.9
77.5°	125.0	120.2	110.6	108.7	111.2
80°	104.6	99.7	90.0	86.4	91.3
82.5°	82.2	80.4	69.5	67.1	68.9
85°	58.0	58.6	48.4	45.3	47.7
87.5°	29.6	30.8	24.8	24.2	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)