

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: P225715

Luminaire Tested: **22GR-LD5-32-A125-UNV-L930-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-32-A125-UNV-L930-CD1-U
Description: METALUX GR 2X2 LED TROFFER WITH A125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2621.5 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

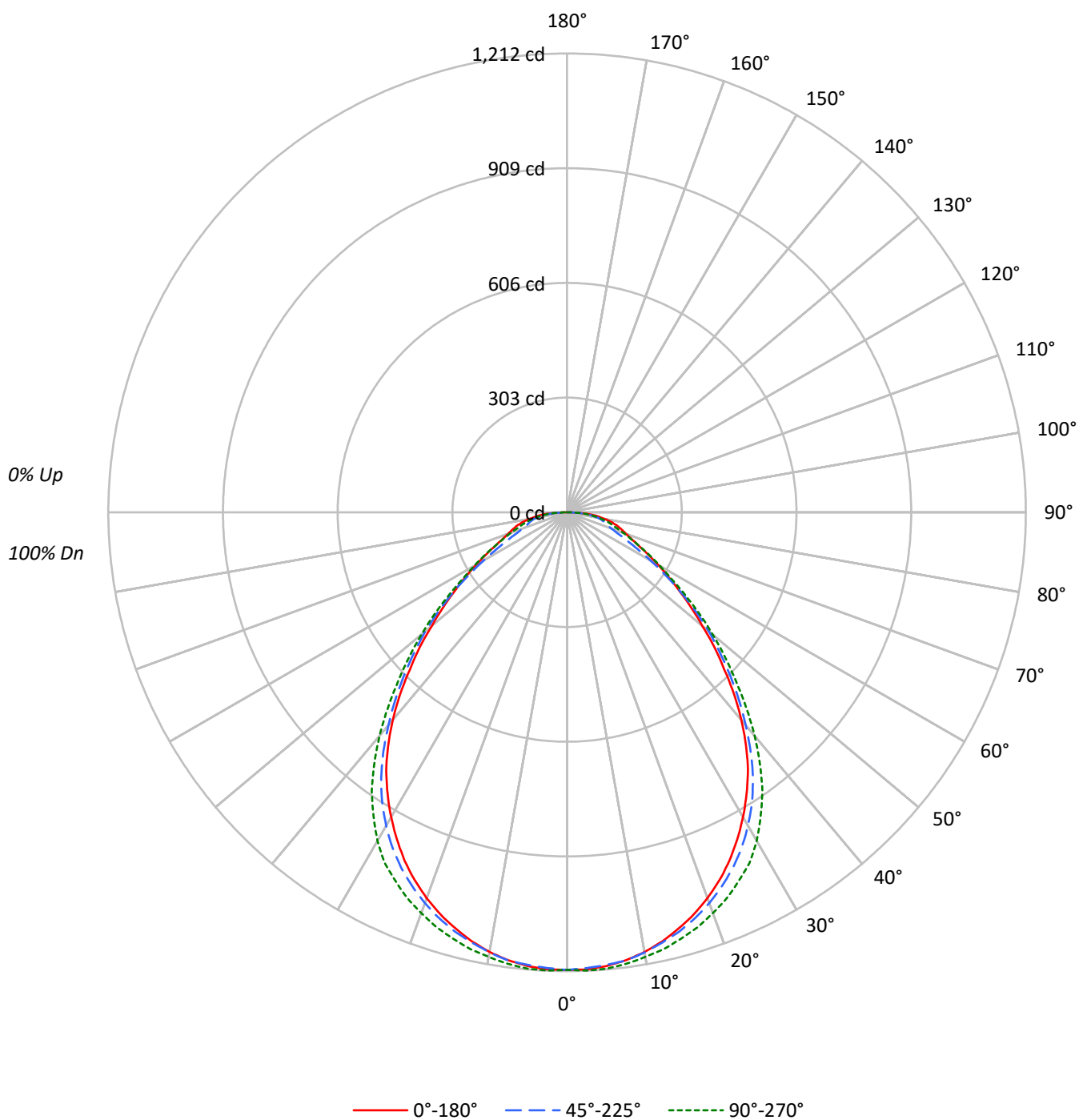
Input Watts (W): 29.95
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86		
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74		
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64		
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56		
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49		
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44		
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39		
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36		
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32		
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3870	3870	3870
5°	3867	3857	3889
10°	3834	3838	3878
15°	3773	3800	3864
20°	3695	3743	3839
25°	3587	3661	3795
30°	3438	3535	3705
35°	3257	3348	3517
40°	2995	3069	3222
45°	2660	2757	2857
50°	2323	2430	2503
55°	2021	2047	2123
60°	1777	1629	1813
65°	1579	1302	1589
70°	1551	1156	1465
75°	1694	1271	1497
80°	1861	1510	1601
85°	2223	1749	1797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	4.4
10°-20°	323.9	12.4
20°-30°	478.1	18.2
30°-40°	535.0	20.4
40°-50°	469.8	17.9
50°-60°	332.4	12.7
60°-70°	193.5	7.4
70°-80°	120.6	4.6
80°-90°	54.0	2.1
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°	916.2	34.9
0°-40°	1451.2	55.4
0°-60°	2253.5	86.0
0°-90°	2621.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2621.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1208	1208	1208	1208	1208	
5°	1203	1200	1200	1206	1210	114
15°	1138	1140	1146	1158	1166	321
25°	1015	1020	1036	1060	1074	466
35°	833	837	856	882	900	518
45°	587	594	609	623	631	454
55°	362	369	367	373	380	327
65°	208	192	172	187	210	211
75°	137	118	103	105	121	143
85°	60	63	48	46	49	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1208.4	1208.4	1208.4	1208.4	1208.4
2.5°	1208.4	1206.0	1204.7	1209.0	1211.5
5°	1202.9	1199.8	1199.8	1206.0	1209.6
7.5°	1193.1	1190.1	1193.8	1199.2	1202.9
10°	1179.1	1177.8	1180.3	1187.6	1192.5
12.5°	1160.7	1161.4	1163.7	1175.4	1181.5
15°	1138.1	1140.5	1146.0	1158.2	1165.6
17.5°	1113.6	1115.5	1124.1	1138.1	1148.5
20°	1084.3	1088.0	1098.4	1116.1	1126.5
22.5°	1051.9	1056.2	1069.0	1090.4	1103.2
25°	1015.2	1019.5	1036.1	1060.5	1074.0
27.5°	973.7	980.4	998.8	1025.7	1043.9
30°	929.7	935.2	956.0	986.5	1001.8
32.5°	882.6	889.4	908.9	938.2	951.7
35°	833.1	836.8	856.3	882.0	899.7
37.5°	776.9	778.7	797.0	820.9	836.8
40°	716.4	717.6	734.1	756.7	770.8
42.5°	653.4	654.0	671.7	688.9	701.1
45°	587.4	594.1	608.8	623.4	630.8
47.5°	528.1	533.0	546.4	559.2	566.0
50°	466.3	478.6	487.7	494.5	502.4
52.5°	413.2	423.6	426.0	433.9	440.7
55°	361.9	369.2	366.7	373.4	380.2
57.5°	318.5	314.8	306.8	318.5	327.0
60°	277.5	267.7	254.3	270.2	283.0
62.5°	240.8	224.9	208.4	224.4	245.8
65°	208.4	192.0	171.8	187.0	209.7
67.5°	184.0	166.9	143.0	158.3	180.9
70°	165.6	147.9	123.5	136.3	156.5
72.5°	151.0	132.0	110.6	119.2	136.3
75°	136.9	118.0	102.7	105.1	121.0
77.5°	120.4	106.4	94.1	92.9	105.1
80°	100.9	96.6	81.9	80.0	86.8
82.5°	83.1	81.3	67.2	65.4	67.8
85°	60.5	63.0	47.6	46.5	48.9
87.5°	31.8	34.8	25.1	26.3	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)