

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: P225721

Luminaire Tested: **22GR-LD5-28-A125-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225721
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-LD5-28-A125-UNV-L935-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: 2451.4 lumens
Efficiency: N/A
Efficacy: 106.6 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

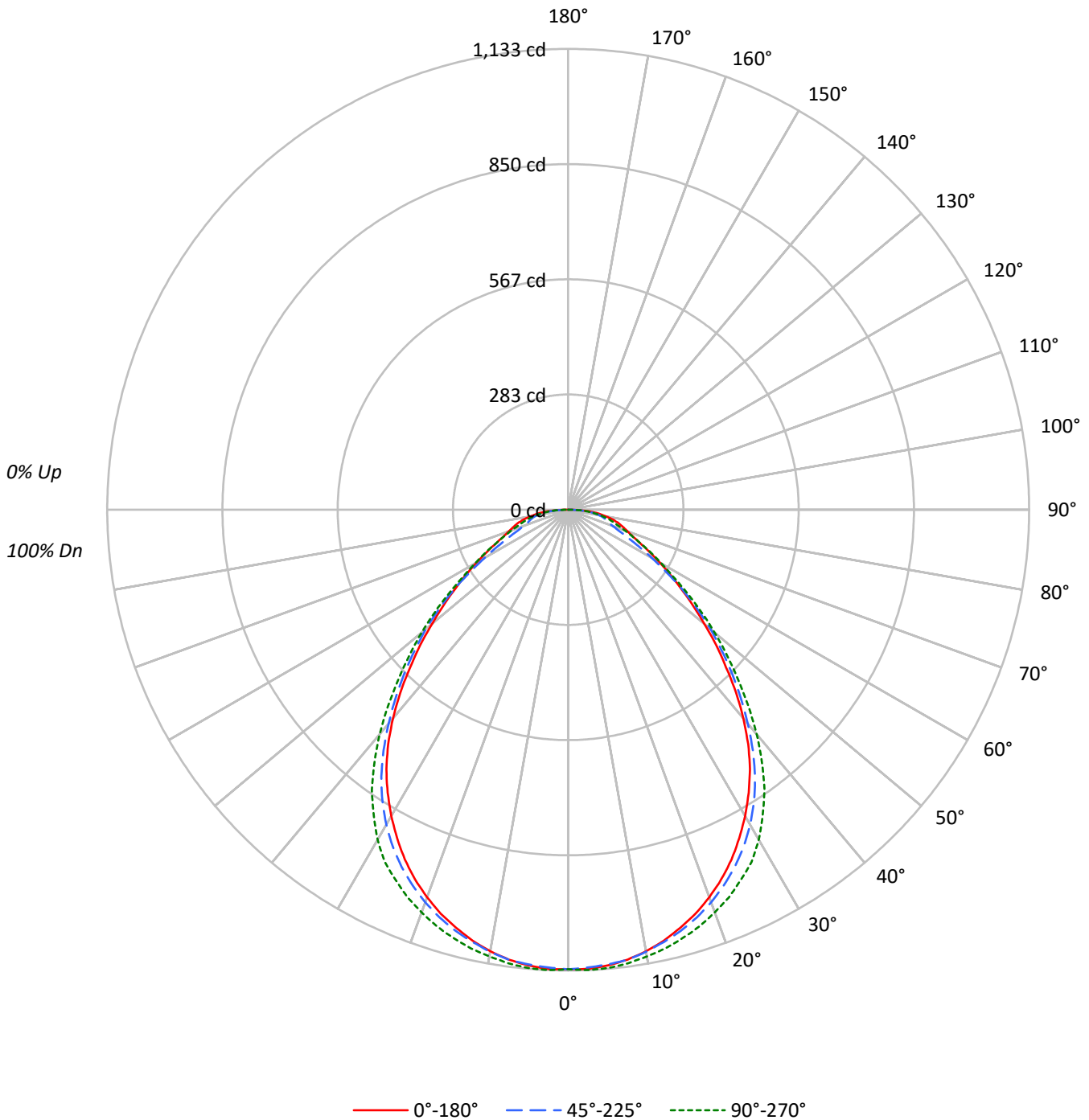
Input Watts (W): 22.986
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					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°	3619	3619	3619
5°	3616	3607	3636
10°	3585	3589	3626
15°	3529	3553	3614
20°	3456	3500	3590
25°	3355	3423	3548
30°	3215	3306	3464
35°	3046	3131	3289
40°	2801	2870	3013
45°	2488	2578	2671
50°	2173	2272	2341
55°	1889	1915	1985
60°	1662	1522	1695
65°	1477	1217	1485
70°	1450	1081	1370
75°	1584	1188	1399
80°	1739	1413	1498
85°	2080	1635	1679



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	4.4
10°-20°	302.9	12.4
20°-30°	447.1	18.2
30°-40°	500.3	20.4
40°-50°	439.3	17.9
50°-60°	310.9	12.7
60°-70°	180.9	7.4
70°-80°	112.8	4.6
80°-90°	50.5	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°	856.7	34.9
0°-40°	1357.0	55.4
0°-60°	2107.2	86.0
0°-90°	2451.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2451.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1130	1130	1130	1130	1130	
5°	1125	1122	1122	1128	1131	107
15°	1064	1066	1072	1083	1090	300
25°	949	953	969	992	1004	436
35°	779	782	801	825	841	485
45°	549	556	569	583	590	425
55°	338	345	343	349	356	306
65°	195	179	161	175	196	198
75°	128	110	96	98	113	134
85°	57	59	44	43	46	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1130.0	1130.0	1130.0	1130.0	<i>1130.0</i>
2.5°	<i>1130.0</i>	<i>1127.7</i>	<i>1126.5</i>	<i>1130.6</i>	<i>1132.8</i>
5°	1124.8	1122.0	1122.0	1127.7	<i>1131.1</i>
7.5°	1115.7	1112.8	1116.2	1121.4	<i>1124.8</i>
10°	1102.5	1101.4	1103.6	1110.5	<i>1115.1</i>
12.5°	1085.4	1086.0	1088.3	1099.1	<i>1104.8</i>
15°	1064.3	1066.5	1071.7	1083.1	<i>1090.0</i>
17.5°	1041.4	1043.1	1051.1	1064.3	<i>1074.0</i>
20°	1014.0	1017.4	1027.1	1043.6	<i>1053.4</i>
22.5°	983.6	987.6	999.7	1019.7	<i>1031.6</i>
25°	949.4	953.4	968.8	991.7	<i>1004.2</i>
27.5°	910.5	916.8	933.9	959.1	<i>976.2</i>
30°	869.4	874.5	893.9	922.5	<i>936.8</i>
32.5°	825.4	831.6	849.9	877.4	<i>890.0</i>
35°	779.0	782.4	800.8	824.8	<i>841.3</i>
37.5°	726.5	728.2	745.3	767.6	<i>782.4</i>
40°	669.9	671.0	686.5	707.6	<i>720.7</i>
42.5°	611.0	611.6	628.2	644.1	<i>655.6</i>
45°	549.3	555.6	569.2	583.0	<i>589.8</i>
47.5°	493.8	498.4	510.9	523.0	<i>529.3</i>
50°	436.1	447.5	456.1	462.4	<i>469.8</i>
52.5°	386.4	396.1	398.4	405.8	<i>412.1</i>
55°	338.4	345.2	343.0	349.3	<i>355.5</i>
57.5°	297.8	294.4	287.0	297.8	<i>305.7</i>
60°	259.5	250.3	237.7	252.6	<i>264.6</i>
62.5°	225.2	210.4	194.9	209.8	<i>229.8</i>
65°	194.9	179.4	160.6	174.9	<i>196.0</i>
67.5°	172.0	156.1	133.7	148.1	<i>169.2</i>
70°	154.9	138.3	115.4	127.5	<i>146.3</i>
72.5°	141.2	123.4	103.4	111.4	<i>127.5</i>
75°	128.0	110.3	96.0	98.3	<i>113.1</i>
77.5°	112.6	99.4	88.1	86.9	<i>98.3</i>
80°	94.3	90.3	76.6	74.9	<i>81.2</i>
82.5°	77.7	76.0	62.9	61.1	<i>63.4</i>
85°	56.6	58.9	44.5	43.4	<i>45.7</i>
87.5°	29.8	32.6	23.5	24.6	<i>25.2</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)