

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: P476075

Luminaire Tested: **22GR-LD5-28-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476075
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-A125-UNV-L830-CD1-U
Description: GR 2'X2' LED TROFFER w/ A125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2751.5 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

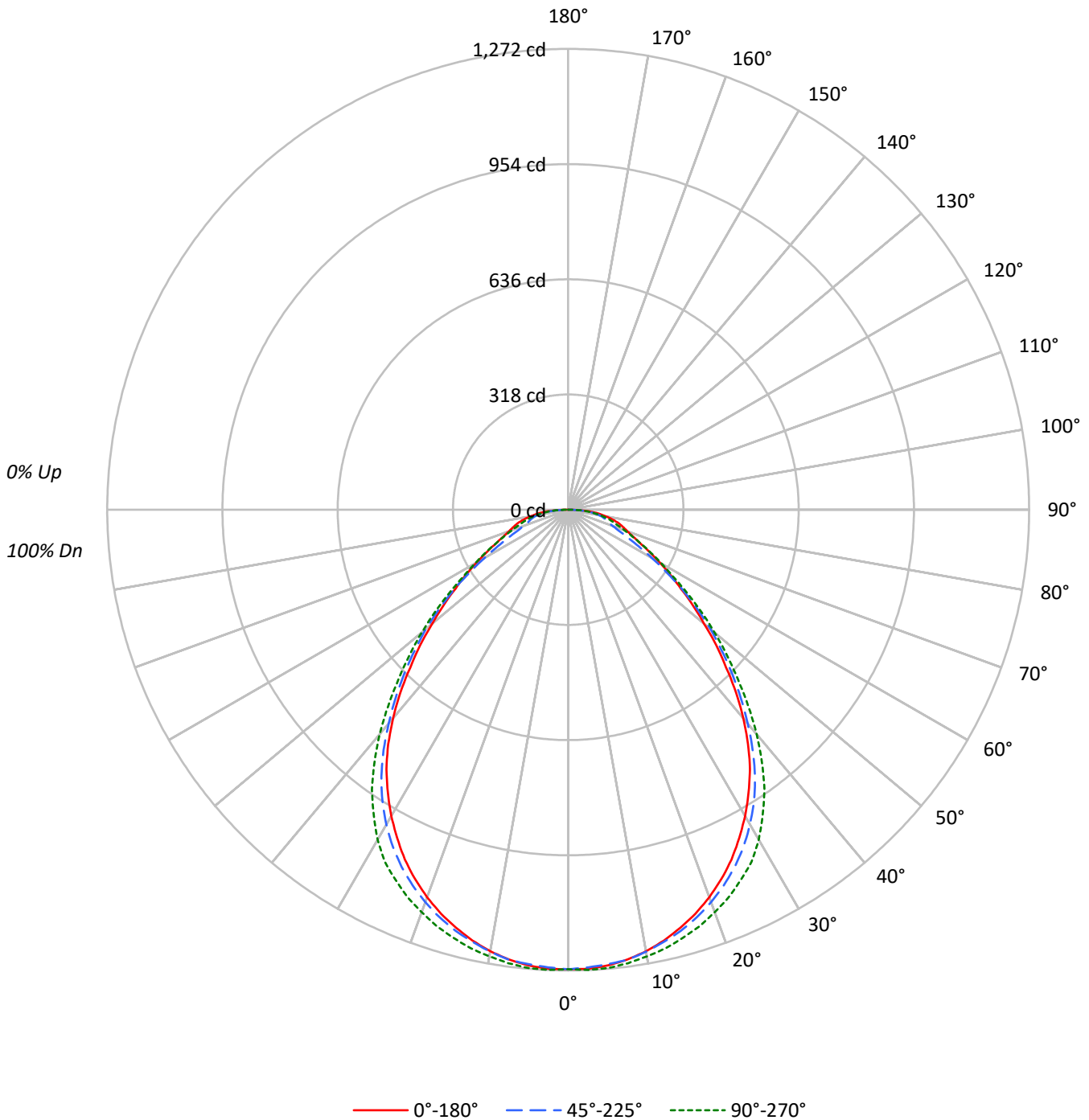
Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
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°	3413	3413	3413
5°	3411	3402	3430
10°	3382	3385	3420
15°	3328	3351	3408
20°	3259	3302	3386
25°	3164	3229	3347
30°	3032	3118	3268
35°	2872	2953	3102
40°	2642	2707	2842
45°	2346	2431	2519
50°	2049	2143	2208
55°	1781	1806	1872
60°	1568	1436	1599
65°	1393	1148	1401
70°	1367	1019	1293
75°	1495	1121	1320
80°	1641	1331	1413
85°	1961	1547	1584



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.9	4.4
10°-20°	339.9	12.4
20°-30°	501.8	18.2
30°-40°	561.5	20.4
40°-50°	493.1	17.9
50°-60°	348.9	12.7
60°-70°	203.1	7.4
70°-80°	126.6	4.6
80°-90°	56.6	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°	961.6	34.9
0°-40°	1523.2	55.4
0°-60°	2365.2	86.0
0°-90°	2751.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2751.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1268	1268	1268	1268	1268	
5°	1263	1259	1259	1266	1270	120
15°	1194	1197	1203	1216	1223	337
25°	1066	1070	1087	1113	1127	489
35°	874	878	899	926	944	544
45°	616	624	639	654	662	477
55°	380	388	385	392	399	343
65°	219	202	180	196	220	222
75°	144	124	108	110	127	150
85°	64	66	50	49	51	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1268.3	1268.3	1268.3	1268.3	1268.3
2.5°	1268.3	1265.8	1264.4	1269.0	1271.6
5°	1262.6	1259.3	1259.3	1265.8	1269.7
7.5°	1252.4	1249.2	1252.9	1258.7	1262.6
10°	1237.6	1236.3	1238.8	1246.6	1251.7
12.5°	1218.3	1218.9	1221.5	1233.7	1240.2
15°	1194.5	1197.0	1203.0	1215.7	1223.4
17.5°	1168.9	1170.9	1179.7	1194.5	1205.5
20°	1138.1	1141.9	1152.9	1171.4	1182.4
22.5°	1104.0	1108.6	1122.0	1144.6	1158.0
25°	1065.7	1070.1	1087.4	1113.0	1127.3
27.5°	1022.0	1029.0	1048.3	1076.5	1095.7
30°	975.9	981.6	1003.4	1035.4	1051.6
32.5°	926.5	933.4	954.0	984.7	998.9
35°	874.4	878.3	898.8	925.8	944.3
37.5°	815.5	817.3	836.5	861.6	878.3
40°	752.0	753.2	770.5	794.2	809.0
42.5°	685.8	686.4	705.1	722.9	735.8
45°	616.5	623.6	638.9	654.4	662.0
47.5°	554.2	559.5	573.6	587.0	594.1
50°	489.5	502.3	512.0	519.1	527.4
52.5°	433.7	444.6	447.1	455.4	462.6
55°	379.7	387.5	385.0	391.9	399.1
57.5°	334.2	330.3	322.0	334.2	343.2
60°	291.3	280.9	266.8	283.6	297.1
62.5°	252.7	236.1	218.8	235.4	257.8
65°	218.8	201.5	180.3	196.4	220.0
67.5°	193.2	175.2	150.1	166.2	189.9
70°	173.8	155.3	129.5	143.1	164.3
72.5°	158.5	138.5	116.1	125.1	143.1
75°	143.8	123.7	107.8	110.3	127.0
77.5°	126.5	111.7	98.8	97.4	110.3
80°	105.9	101.3	85.9	84.0	91.2
82.5°	87.2	85.4	70.6	68.6	71.3
85°	63.5	66.0	50.1	48.7	51.3
87.5°	33.4	36.5	26.3	27.7	28.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)