

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: P476315

Luminaire Tested: **14GR-LD5-28-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476315
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-28-A125-UNV-L830-CD1-U
Description: GR 1'X4' LED TROFFER w/ A125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2735.2 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

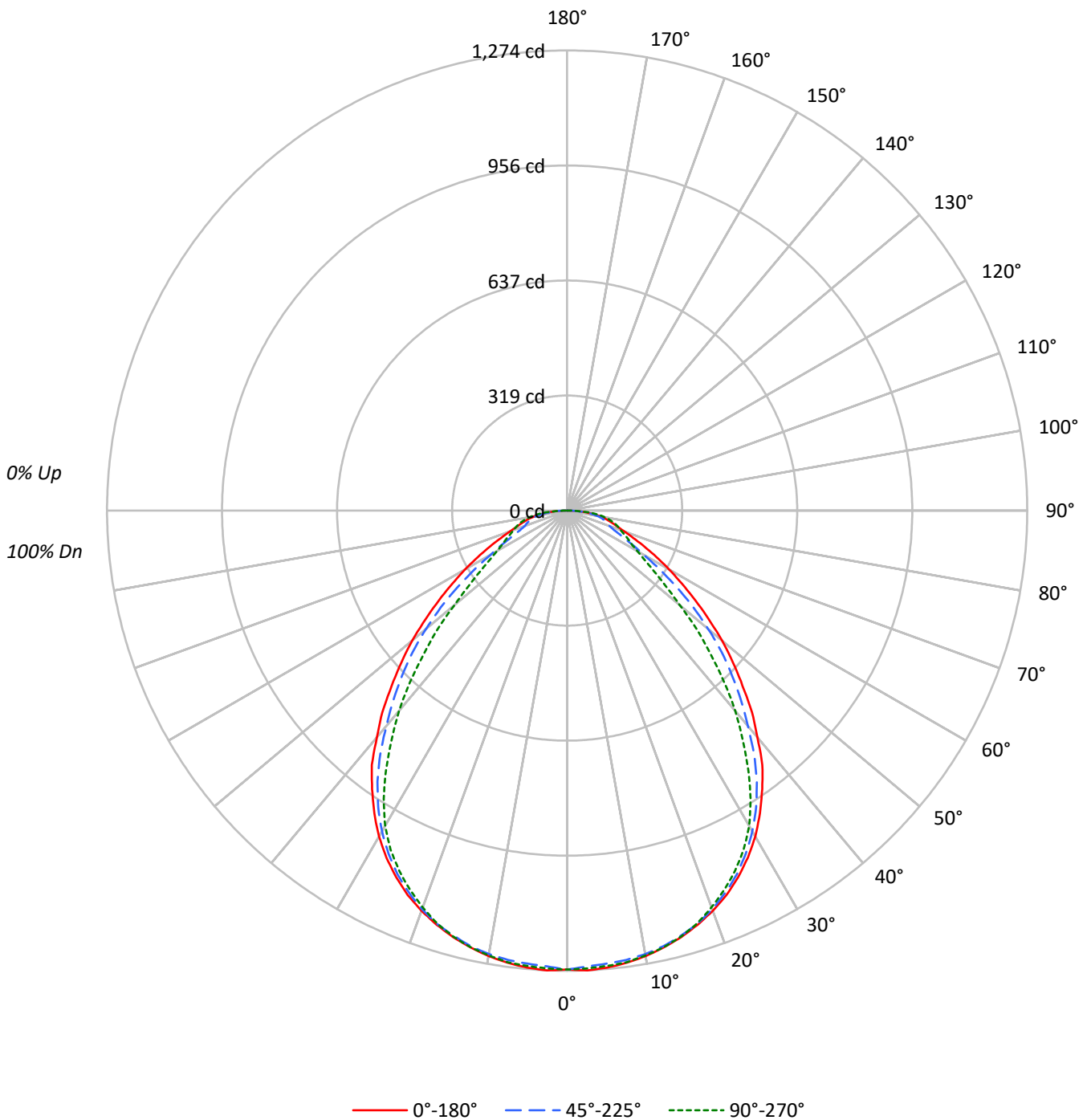
Input Watts (W): 23.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	48	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3419	3419	3419
5°	3431	3401	3418
10°	3422	3406	3416
15°	3405	3393	3400
20°	3377	3364	3347
25°	3325	3299	3267
30°	3237	3186	3132
35°	3093	3007	2871
40°	2878	2733	2545
45°	2615	2458	2133
50°	2341	2134	1701
55°	2034	1742	1381
60°	1755	1317	1204
65°	1501	1053	1182
70°	1325	980	1240
75°	1321	1124	1414
80°	1429	1309	1626
85°	1531	1392	1865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.3	4.4
10°-20°	344.3	12.6
20°-30°	510.8	18.7
30°-40°	567.2	20.7
40°-50°	489.2	17.9
50°-60°	331.7	12.1
60°-70°	191.8	7.0
70°-80°	125.2	4.6
80°-90°	54.6	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°	975.4	35.7
0°-40°	1542.6	56.4
0°-60°	2363.5	86.4
0°-90°	2735.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2735.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1271	1271	1271	1271	1271	
5°	1270	1265	1259	1268	1266	121
15°	1222	1220	1218	1226	1220	345
25°	1120	1119	1111	1108	1100	515
35°	941	932	915	890	874	587
45°	687	676	646	592	561	531
55°	434	425	371	316	294	390
65°	236	209	165	169	186	237
75°	127	115	108	121	136	135
85°	50	48	45	63	60	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1270.6	1270.6	1270.6	1270.6	1270.6
2.5°	1274.4	1270.0	1263.0	1270.6	1268.7
5°	1270.0	1264.9	1259.2	1268.1	1265.5
7.5°	1263.0	1257.9	1254.7	1262.4	1261.1
10°	1252.2	1248.4	1246.5	1256.0	1250.3
12.5°	1238.8	1235.7	1235.0	1242.6	1238.2
15°	1222.3	1219.8	1217.9	1226.1	1220.4
17.5°	1202.0	1200.7	1199.4	1203.2	1198.2
20°	1179.1	1177.8	1174.6	1175.3	1168.9
22.5°	1152.4	1151.1	1144.8	1143.5	1136.5
25°	1120.0	1118.7	1111.1	1107.9	1100.3
27.5°	1083.1	1083.7	1071.0	1065.3	1058.3
30°	1041.8	1039.2	1025.3	1015.7	1008.1
32.5°	993.5	990.3	973.8	958.5	945.2
35°	941.4	932.5	915.3	889.9	874.0
37.5°	888.0	875.9	850.5	818.0	797.1
40°	819.3	806.6	778.0	741.1	724.6
42.5°	757.7	744.3	712.5	669.3	643.3
45°	687.1	676.3	645.8	592.4	560.6
47.5°	622.9	611.5	580.3	517.4	486.3
50°	559.3	546.6	509.8	441.8	406.2
52.5°	493.2	486.3	441.1	373.1	344.5
55°	433.5	424.6	371.2	315.9	294.3
57.5°	376.3	361.7	303.8	262.5	254.2
60°	326.1	305.7	244.7	221.8	223.7
62.5°	278.4	254.2	200.9	190.1	200.9
65°	235.8	209.1	165.3	169.1	185.6
67.5°	198.3	172.9	140.5	155.7	169.7
70°	168.4	147.5	124.6	141.7	157.6
72.5°	144.3	130.3	117.0	130.3	147.5
75°	127.1	115.0	108.1	120.8	136.0
77.5°	111.2	101.7	98.5	108.7	121.4
80°	92.2	87.7	84.5	97.9	104.9
82.5°	71.2	69.3	66.7	83.3	86.4
85°	49.6	48.3	45.1	62.9	60.4
87.5°	26.1	24.8	22.9	33.1	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)