

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: P476087

Luminaire Tested: **22GR-LD5-28-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476087
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-L835-CD1-U
Description: GR 2'X2' LED TROFFER w/ A125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2851.3 lumens
Efficiency: N/A
Efficacy: 135.8 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

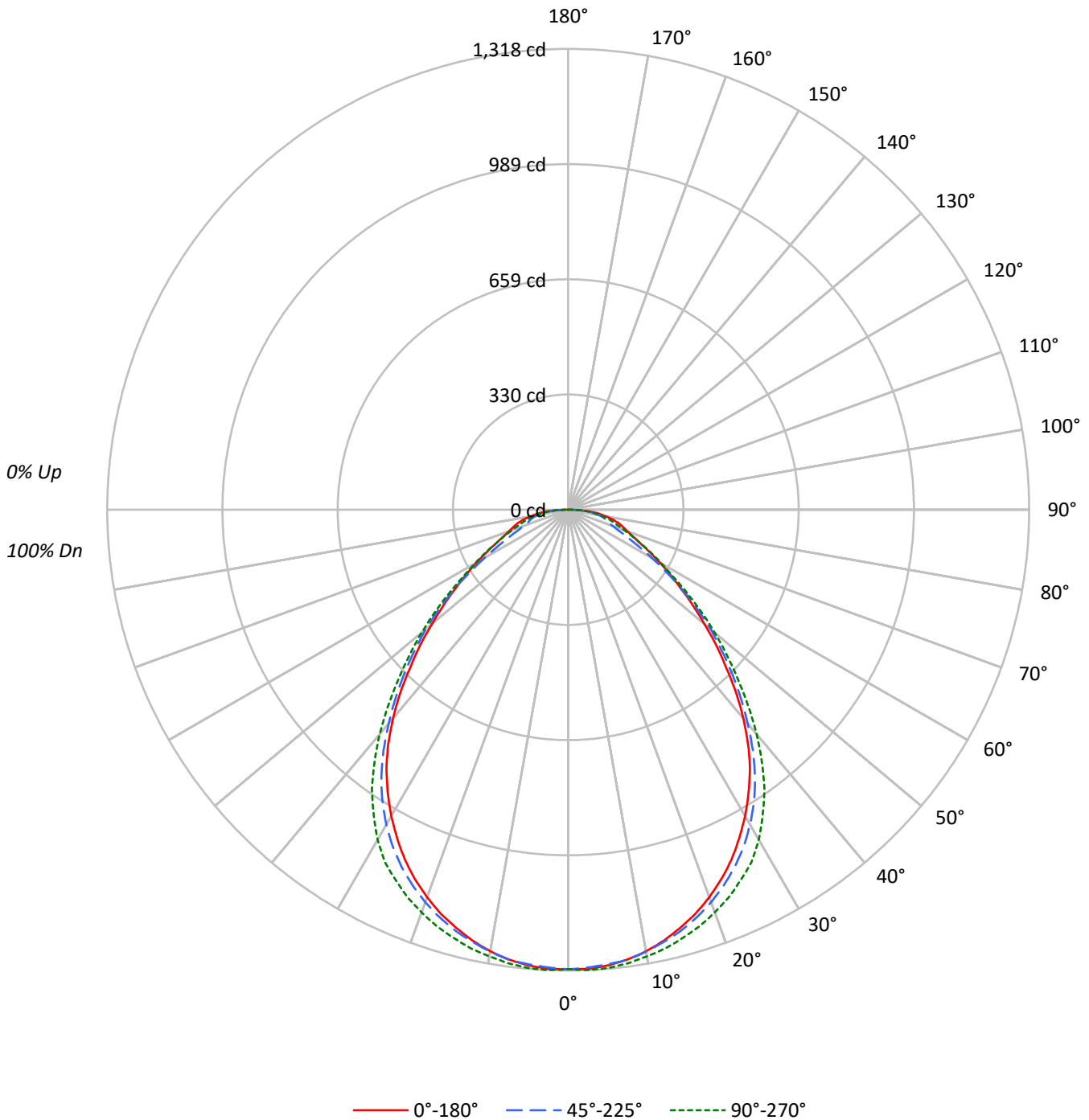
Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3537	3537	3537
5°	3534	3525	3554
10°	3504	3508	3544
15°	3448	3473	3532
20°	3377	3421	3509
25°	3279	3346	3469
30°	3142	3231	3386
35°	2977	3060	3214
40°	2737	2805	2945
45°	2431	2520	2611
50°	2124	2221	2288
55°	1846	1871	1940
60°	1624	1488	1657
65°	1443	1189	1452
70°	1417	1056	1340
75°	1549	1161	1368
80°	1702	1379	1464
85°	2032	1602	1639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.2	4.4
10°-20°	352.3	12.4
20°-30°	520.0	18.2
30°-40°	581.9	20.4
40°-50°	511.0	17.9
50°-60°	361.6	12.7
60°-70°	210.5	7.4
70°-80°	131.2	4.6
80°-90°	58.7	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°	996.5	34.9
0°-40°	1578.4	55.4
0°-60°	2451.0	86.0
0°-90°	2851.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2851.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1314	1314	1314	1314	1314	
5°	1308	1305	1305	1312	1316	124
15°	1238	1240	1247	1260	1268	349
25°	1104	1109	1127	1153	1168	507
35°	906	910	931	959	978	564
45°	639	646	662	678	686	494
55°	394	402	399	406	414	356
65°	227	209	187	204	228	230
75°	149	128	112	114	132	156
85°	66	68	52	50	53	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1314.3	1314.3	1314.3	1314.3	<i>1314.3</i>
2.5°	<i>1314.3</i>	<i>1311.7</i>	<i>1310.3</i>	<i>1315.0</i>	<i>1317.7</i>
5°	1308.4	1305.0	1305.0	1311.7	<i>1315.7</i>
7.5°	1297.8	1294.5	1298.3	1304.3	<i>1308.4</i>
10°	1282.5	1281.1	1283.7	1291.8	<i>1297.1</i>
12.5°	1262.4	1263.1	1265.8	1278.5	<i>1285.1</i>
15°	1237.8	1240.5	1246.6	1259.8	<i>1267.7</i>
17.5°	1211.3	1213.4	1222.5	1237.8	<i>1249.3</i>
20°	1179.4	1183.3	1194.7	1213.9	<i>1225.3</i>
22.5°	1144.1	1148.8	1162.7	1186.1	<i>1200.0</i>
25°	1104.3	1108.9	1126.8	1153.4	<i>1168.2</i>
27.5°	1059.1	1066.3	1086.4	1115.6	<i>1135.4</i>
30°	1011.3	1017.2	1039.8	1073.0	<i>1089.7</i>
32.5°	960.1	967.3	988.6	1020.4	<i>1035.2</i>
35°	906.1	910.1	931.4	959.4	<i>978.5</i>
37.5°	845.0	847.0	866.8	892.9	<i>910.1</i>
40°	779.2	780.5	798.4	823.0	<i>838.3</i>
42.5°	710.6	711.3	730.7	749.2	<i>762.5</i>
45°	638.9	646.3	662.1	678.1	<i>686.0</i>
47.5°	574.3	579.8	594.4	608.3	<i>615.7</i>
50°	507.3	520.5	530.5	537.9	<i>546.5</i>
52.5°	449.4	460.7	463.3	471.9	<i>479.3</i>
55°	393.5	401.6	398.9	406.2	<i>413.5</i>
57.5°	346.3	342.3	333.7	346.3	<i>355.7</i>
60°	301.8	291.1	276.5	293.9	<i>307.8</i>
62.5°	261.9	244.7	226.7	244.0	<i>267.2</i>
65°	226.7	208.8	186.8	203.5	<i>228.0</i>
67.5°	200.2	181.5	155.5	172.2	<i>196.8</i>
70°	180.1	160.9	134.2	148.3	<i>170.3</i>
72.5°	164.3	143.5	120.3	129.6	<i>148.3</i>
75°	149.0	128.2	111.7	114.3	<i>131.6</i>
77.5°	131.0	115.7	102.4	101.0	<i>114.3</i>
80°	109.8	105.0	89.0	87.1	<i>94.5</i>
82.5°	90.4	88.5	73.2	71.1	<i>73.9</i>
85°	65.8	68.4	51.9	50.5	<i>53.1</i>
87.5°	34.7	37.8	27.3	28.7	<i>29.2</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)