

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: P476111

Luminaire Tested: **22GR-LD5-28-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476111
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-L850-CD1-U
Description: GR 2'X2' LED TROFFER w/ A125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2908.4 lumens
Efficiency: N/A
Efficacy: 138.5 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

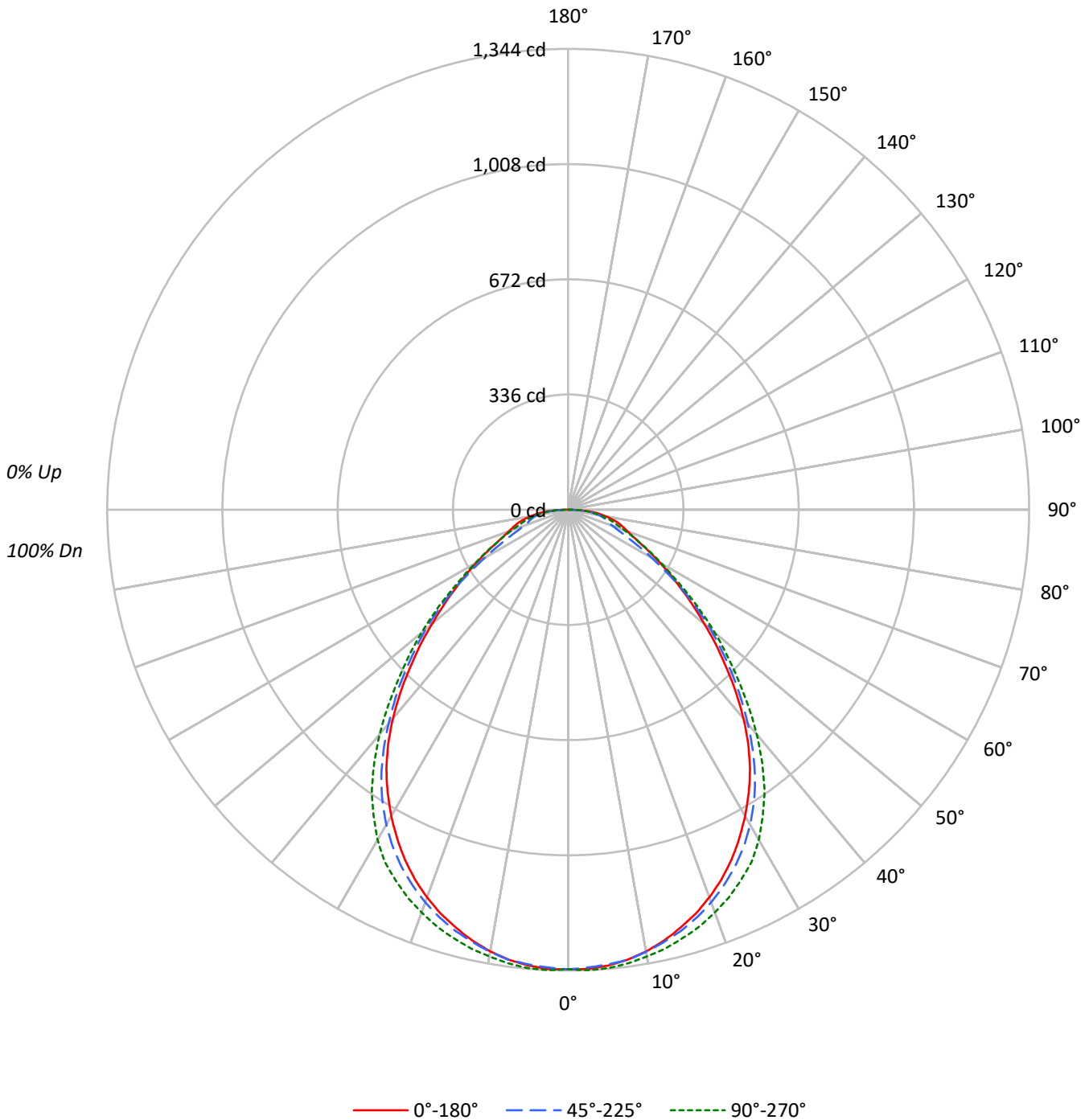
Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3608	3608	3608
5°	3605	3596	3625
10°	3574	3578	3615
15°	3517	3542	3602
20°	3445	3490	3579
25°	3344	3413	3538
30°	3205	3295	3454
35°	3036	3121	3279
40°	2792	2861	3004
45°	2480	2570	2663
50°	2166	2265	2334
55°	1883	1909	1979
60°	1657	1518	1690
65°	1473	1213	1480
70°	1445	1077	1367
75°	1580	1184	1395
80°	1736	1407	1492
85°	2072	1633	1673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.7	4.4
10°-20°	359.3	12.4
20°-30°	530.4	18.2
30°-40°	593.5	20.4
40°-50°	521.2	17.9
50°-60°	368.8	12.7
60°-70°	214.7	7.4
70°-80°	133.8	4.6
80°-90°	59.9	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°	1016.5	34.9
0°-40°	1610.0	55.4
0°-60°	2500.0	86.0
0°-90°	2908.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2908.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1341	1341	1341	1341	1341	
5°	1334	1331	1331	1338	1342	127
15°	1263	1265	1272	1285	1293	356
25°	1126	1131	1149	1176	1192	517
35°	924	928	950	979	998	575
45°	652	659	675	692	700	504
55°	401	410	407	414	422	363
65°	231	213	190	208	232	235
75°	152	131	114	117	134	159
85°	67	70	53	52	54	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1340.6	1340.6	1340.6	1340.6	1340.6
2.5°	1340.6	1337.9	1336.5	1341.3	1344.0
5°	1334.5	1331.1	1331.1	1337.9	1342.1
7.5°	1323.8	1320.3	1324.3	1330.4	1334.5
10°	1308.1	1306.7	1309.4	1317.7	1323.0
12.5°	1287.7	1288.4	1291.1	1304.0	1310.8
15°	1262.6	1265.3	1271.5	1285.0	1293.1
17.5°	1235.5	1237.6	1247.0	1262.6	1274.2
20°	1203.0	1207.0	1218.6	1238.2	1249.8
22.5°	1166.9	1171.8	1186.0	1209.8	1224.0
25°	1126.4	1131.1	1149.4	1176.5	1191.5
27.5°	1080.3	1087.6	1108.1	1137.9	1158.2
30°	1031.5	1037.6	1060.5	1094.5	1111.5
32.5°	979.3	986.6	1008.3	1040.8	1055.9
35°	924.2	928.3	950.0	978.6	998.1
37.5°	861.9	863.9	884.2	910.7	928.3
40°	794.8	796.1	814.4	839.5	855.1
42.5°	724.9	725.6	745.3	764.1	777.8
45°	651.7	659.2	675.3	691.7	699.7
47.5°	585.8	591.4	606.3	620.4	628.0
50°	517.4	530.9	541.1	548.7	557.5
52.5°	458.4	469.9	472.6	481.4	488.9
55°	401.4	409.6	406.9	414.3	421.8
57.5°	353.3	349.1	340.4	353.3	362.8
60°	307.9	296.9	282.0	299.8	314.0
62.5°	267.2	249.6	231.3	248.9	272.5
65°	231.3	213.0	190.5	207.6	232.5
67.5°	204.2	185.2	158.6	175.7	200.8
70°	183.7	164.2	136.9	151.3	173.7
72.5°	167.6	146.4	122.7	132.2	151.3
75°	152.0	130.8	113.9	116.6	134.2
77.5°	133.7	118.1	104.4	103.0	116.6
80°	112.0	107.1	90.8	88.8	96.3
82.5°	92.2	90.2	74.6	72.5	75.4
85°	67.1	69.8	52.9	51.5	54.2
87.5°	35.3	38.6	27.8	29.2	29.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)