

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: P476342

Luminaire Tested: **14GR-LD5-28-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476342
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-L850-CD1-U
Description: GR 1'X4' LED TROFFER w/ A125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2891.1 lumens
Efficiency: N/A
Efficacy: 124.1 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

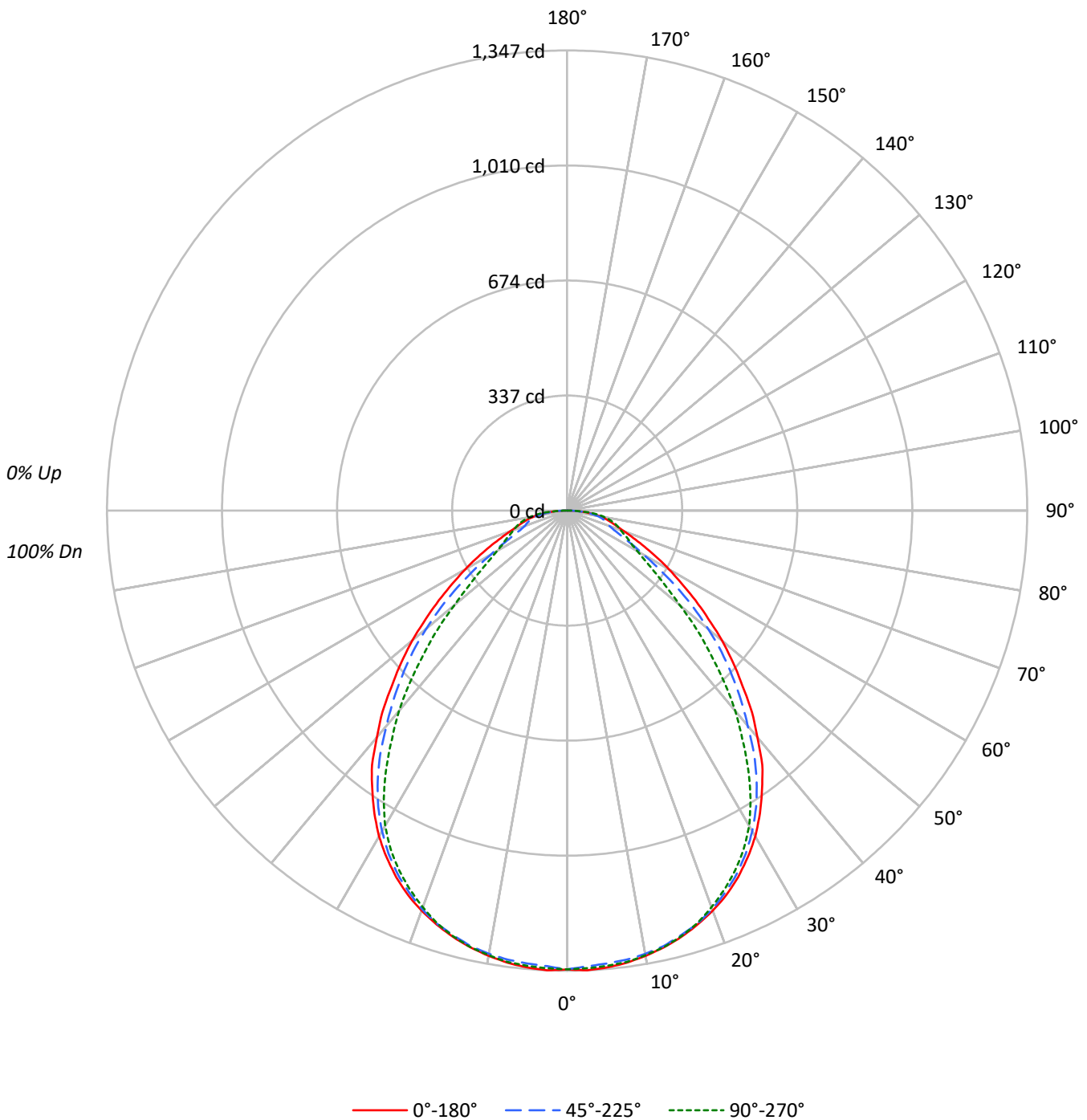
Input Watts (W): 23.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P476342

CATALOG NUMBER: 14GR-LD5-28-A125-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P476342

CATALOG NUMBER: 14GR-LD5-28-A125-UNV-L850-CD1-U

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°	3614	3614	3614
5°	3626	3595	3613
10°	3616	3600	3611
15°	3599	3586	3594
20°	3569	3556	3538
25°	3515	3487	3453
30°	3422	3367	3311
35°	3269	3178	3035
40°	3042	2889	2690
45°	2764	2598	2255
50°	2475	2256	1797
55°	2150	1841	1460
60°	1855	1392	1273
65°	1587	1112	1249
70°	1400	1036	1311
75°	1397	1187	1495
80°	1509	1385	1719
85°	1618	1473	1970



TEST NUMBER: P476342

CATALOG NUMBER: 14GR-LD5-28-A125-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.2	4.4
10°-20°	363.9	12.6
20°-30°	539.9	18.7
30°-40°	599.6	20.7
40°-50°	517.1	17.9
50°-60°	350.7	12.1
60°-70°	202.8	7.0
70°-80°	132.4	4.6
80°-90°	57.7	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°	1030.9	35.7
0°-40°	1630.5	56.4
0°-60°	2498.2	86.4
0°-90°	2891.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2891.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1343	1343	1343	1343	1343	
5°	1342	1337	1331	1340	1338	128
15°	1292	1289	1287	1296	1290	364
25°	1184	1182	1174	1171	1163	544
35°	995	986	968	941	924	620
45°	726	715	683	626	593	561
55°	458	449	392	334	311	412
65°	249	221	175	179	196	251
75°	134	122	114	128	144	143
85°	52	51	48	66	64	55
90°	0	0	0	0	0	



TEST NUMBER: P476342

CATALOG NUMBER: 14GR-LD5-28-A125-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1343.0	1343.0	1343.0	1343.0	1343.0
2.5°	1347.1	1342.4	1335.0	1343.0	1341.0
5°	1342.4	1337.0	1330.9	1340.3	1337.7
7.5°	1335.0	1329.6	1326.2	1334.3	1333.0
10°	1323.5	1319.5	1317.5	1327.6	1321.5
12.5°	1309.4	1306.1	1305.4	1313.5	1308.8
15°	1292.0	1289.3	1287.3	1296.0	1290.0
17.5°	1270.5	1269.1	1267.8	1271.8	1266.4
20°	1246.3	1244.9	1241.6	1242.3	1235.5
22.5°	1218.1	1216.7	1210.0	1208.7	1201.3
25°	1183.8	1182.5	1174.4	1171.0	1163.0
27.5°	1144.8	1145.5	1132.1	1126.0	1118.6
30°	1101.2	1098.5	1083.7	1073.6	1065.6
32.5°	1050.1	1046.7	1029.3	1013.2	999.0
35°	995.0	985.6	967.5	940.6	923.8
37.5°	938.6	925.8	898.9	864.7	842.5
40°	866.0	852.6	822.3	783.4	765.9
42.5°	800.8	786.7	753.1	707.5	679.9
45°	726.3	714.9	682.6	626.2	592.6
47.5°	658.4	646.3	613.4	546.9	514.0
50°	591.2	577.8	538.8	466.9	429.3
52.5°	521.4	514.0	466.3	394.4	364.1
55°	458.2	448.8	392.4	333.9	311.1
57.5°	397.7	382.3	321.1	277.5	268.7
60°	344.7	323.2	258.7	234.5	236.5
62.5°	294.3	268.7	212.3	200.9	212.3
65°	249.3	221.0	174.7	178.7	196.2
67.5°	209.6	182.7	148.5	164.6	179.4
70°	178.0	155.9	131.7	149.8	166.6
72.5°	152.5	137.7	123.6	137.7	155.9
75°	134.4	121.6	114.2	127.7	143.8
77.5°	117.6	107.5	104.1	114.9	128.3
80°	97.4	92.7	89.4	103.5	110.9
82.5°	75.2	73.2	70.5	88.0	91.4
85°	52.4	51.1	47.7	66.5	63.8
87.5°	27.5	26.2	24.2	34.9	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)