

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: P291160

Luminaire Tested: **14GR-LD5-32-A125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291160
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-32-A125-UNV-L83050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3126.0 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

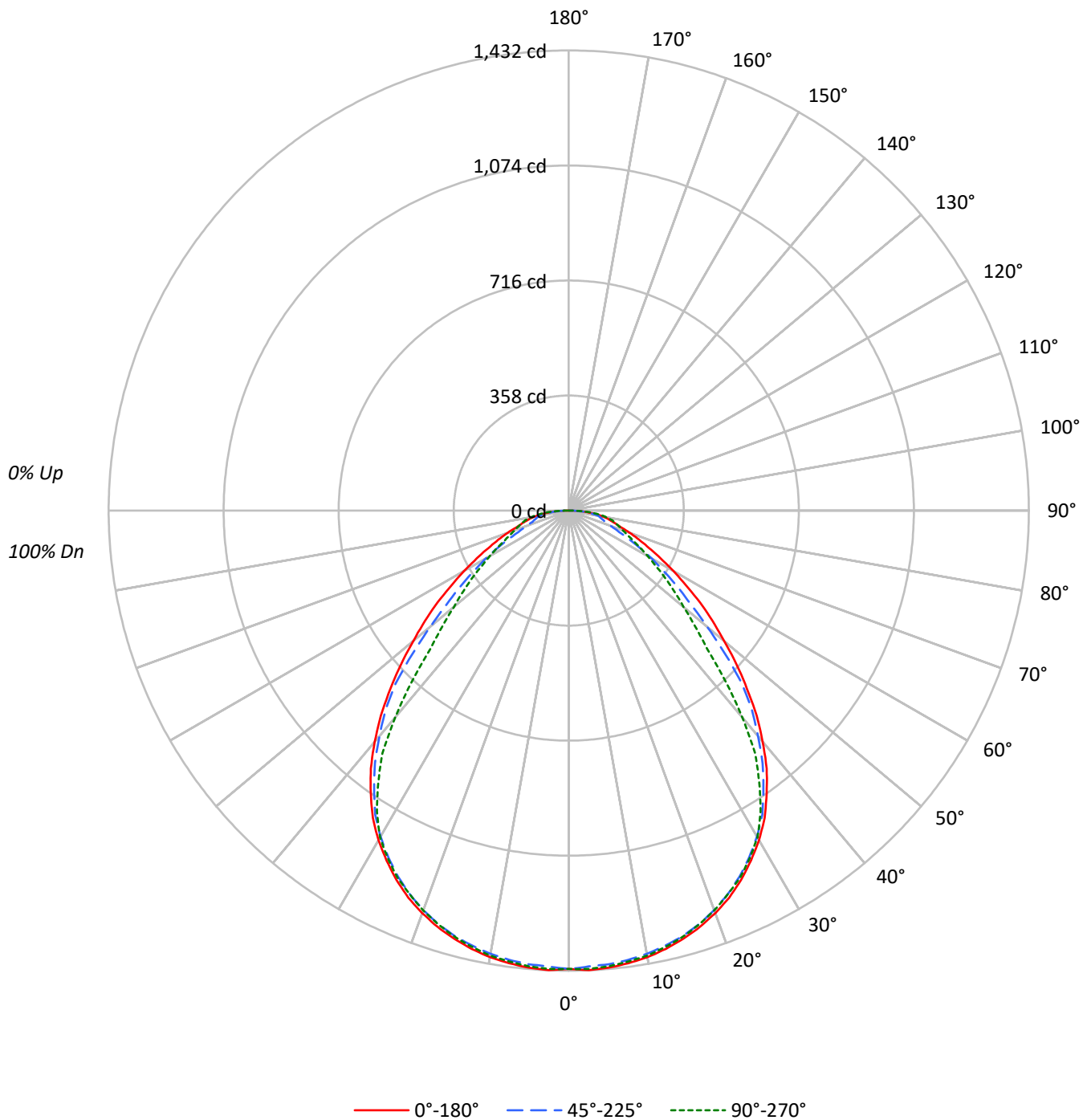
Input Watts (W): 25.575
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	101	94	88	82	99	92	86	82	88	84	80		85	81	78		82
3	93	84	76	70	91	82	75	70	79	73	69		77	72	67		74
4	86	75	67	61	84	74	66	61	71	65	60		69	64	59		67
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		61
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		56
7	69	56	48	43	67	56	48	42	54	47	42		53	47	42		52
8	65	52	44	38	63	51	44	38	50	43	38		49	42	38		48
9	60	48	40	35	59	47	40	35	46	39	35		45	39	34		44
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3839	3839	3839
5°	3857	3828	3846
10°	3856	3827	3842
15°	3843	3819	3824
20°	3817	3788	3792
25°	3766	3732	3742
30°	3680	3639	3648
35°	3528	3469	3395
40°	3299	3217	2953
45°	2986	2901	2316
50°	2641	2347	1952
55°	2337	1929	1722
60°	2018	1596	1526
65°	1755	1270	1404
70°	1586	1090	1404
75°	1523	1138	1568
80°	1697	1450	1832
85°	1791	1544	2195



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	4.3
10°-20°	387.8	12.4
20°-30°	580.3	18.6
30°-40°	656.9	21.0
40°-50°	559.6	17.9
50°-60°	378.9	12.1
60°-70°	226.2	7.2
70°-80°	141.3	4.5
80°-90°	59.7	1.9
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°	1103.4	35.3
0°-40°	1760.3	56.3
0°-60°	2698.8	86.3
0°-90°	3126.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3126.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1426	1426	1426	1426	1426	
5°	1428	1424	1417	1426	1424	136
15°	1379	1374	1371	1379	1373	389
25°	1268	1265	1257	1263	1260	583
35°	1074	1068	1056	1045	1033	669
45°	785	787	762	650	608	605
55°	498	471	411	367	367	445
65°	276	230	199	213	220	278
75°	146	131	110	144	151	158
85°	58	54	50	63	71	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1426.5	1426.5	1426.5	1426.5	1426.5
2.5°	1431.6	1427.9	1420.0	1429.4	1427.9
5°	1427.9	1424.3	1417.1	1425.8	1423.6
7.5°	1420.7	1417.1	1410.5	1419.2	1415.6
10°	1411.3	1406.9	1400.4	1409.8	1406.2
12.5°	1396.8	1392.4	1386.6	1396.0	1391.0
15°	1379.4	1374.3	1370.7	1379.4	1372.8
17.5°	1358.3	1354.0	1348.9	1357.6	1350.3
20°	1332.9	1329.3	1322.8	1327.9	1324.2
22.5°	1303.9	1298.9	1292.3	1298.1	1293.1
25°	1268.4	1264.8	1256.8	1262.6	1260.4
27.5°	1227.8	1225.6	1216.2	1223.4	1219.8
30°	1184.3	1178.5	1171.2	1173.4	1174.1
32.5°	1134.2	1127.0	1121.2	1116.1	1111.0
35°	1074.0	1067.5	1055.9	1045.0	1033.4
37.5°	1011.7	1003.0	991.4	967.4	952.9
40°	939.1	934.8	915.9	882.6	840.5
42.5°	865.2	860.8	844.1	769.4	723.8
45°	784.7	786.9	762.2	649.8	608.5
47.5°	707.8	713.6	659.9	554.8	533.0
50°	630.9	637.5	560.6	479.4	466.3
52.5°	563.5	558.4	477.9	420.6	414.8
55°	498.2	470.7	411.2	367.0	367.0
57.5°	431.5	392.3	349.6	321.3	321.3
60°	374.9	326.3	296.6	277.8	283.6
62.5°	322.7	271.2	245.8	242.2	249.5
65°	275.6	229.9	199.4	213.2	220.5
67.5°	237.1	196.5	163.9	192.9	197.3
70°	201.6	171.2	138.5	177.7	178.4
72.5°	169.0	150.8	118.9	161.0	163.9
75°	146.5	131.3	109.5	143.6	150.8
77.5°	128.4	112.4	100.8	124.0	137.8
80°	109.5	92.1	93.6	104.4	118.2
82.5°	84.1	71.1	74.0	85.6	96.5
85°	58.0	53.7	50.0	63.1	71.1
87.5°	31.2	29.0	25.4	35.5	36.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)