

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: P291208

Luminaire Tested: **14GR-LD5-32-A125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291208
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-L82765-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: 3123.0 lumens
Efficiency: N/A
Efficacy: 122.6 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

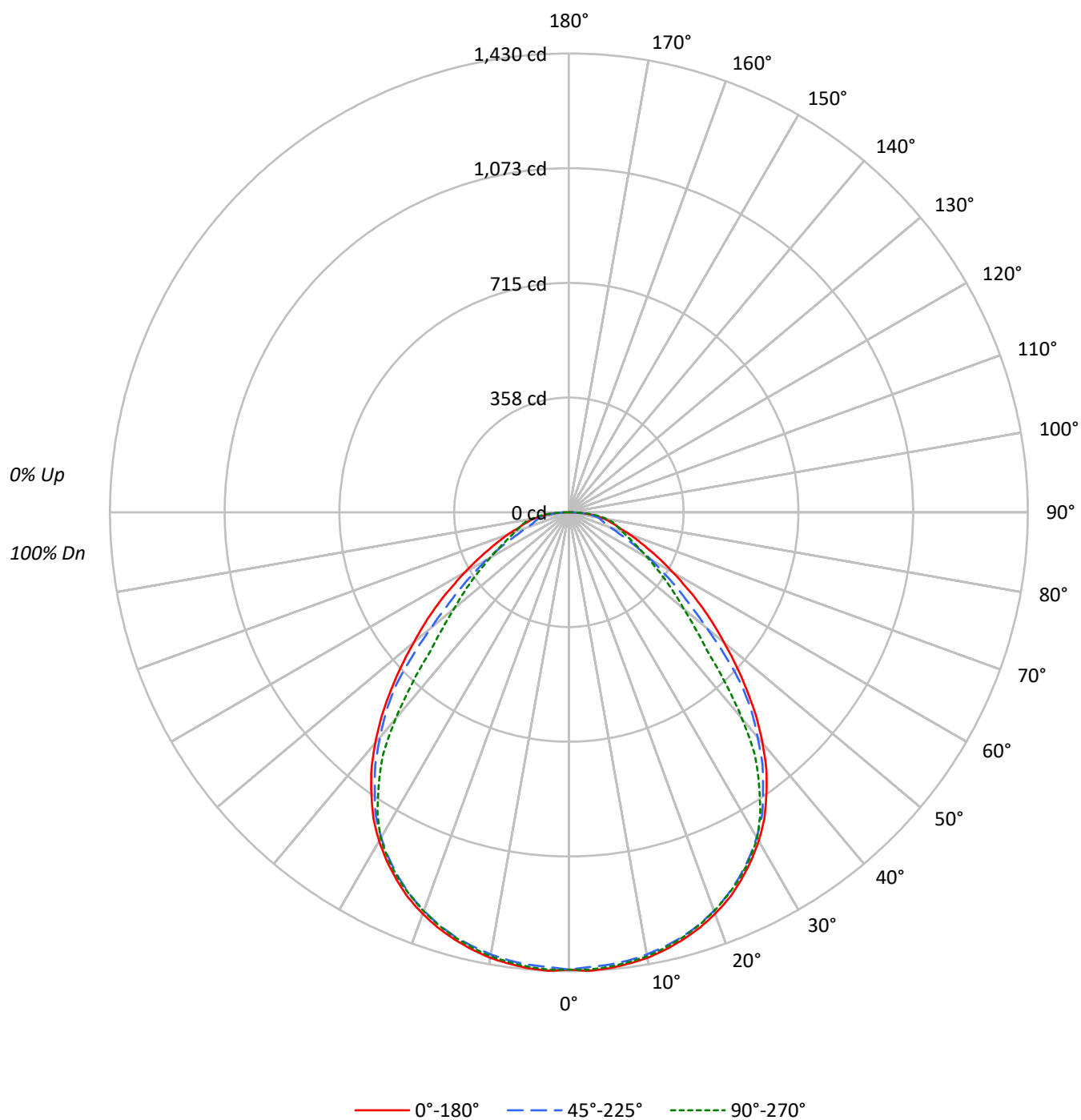
Input Watts (W): 25.482
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3835	3835	3835
5°	3854	3824	3842
10°	3853	3823	3839
15°	3839	3815	3821
20°	3814	3784	3789
25°	3763	3728	3739
30°	3676	3636	3645
35°	3525	3465	3392
40°	3296	3215	2950
45°	2983	2898	2313
50°	2639	2345	1950
55°	2335	1927	1720
60°	2016	1595	1525
65°	1753	1268	1403
70°	1585	1089	1402
75°	1522	1137	1567
80°	1695	1449	1830
85°	1791	1544	2192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.2	4.3
10°-20°	387.4	12.4
20°-30°	579.8	18.6
30°-40°	656.3	21.0
40°-50°	559.0	17.9
50°-60°	378.5	12.1
60°-70°	226.0	7.2
70°-80°	141.2	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°	1102.3	35.3
0°-40°	1758.6	56.3
0°-60°	2696.2	86.3
0°-90°	3123.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3123.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1425	1425	1425	1425	1425	
5°	1427	1423	1416	1424	1422	136
15°	1378	1373	1369	1378	1372	389
25°	1267	1264	1256	1261	1259	583
35°	1073	1066	1055	1044	1032	669
45°	784	786	762	649	608	605
55°	498	470	411	367	367	445
65°	275	230	199	213	220	277
75°	146	131	109	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°	1425.1	1425.1	1425.1	1425.1	1425.1
2.5°	1430.2	1426.6	1418.6	1428.0	1426.6
5°	1426.6	1422.9	1415.7	1424.4	1422.2
7.5°	1419.3	1415.7	1409.2	1417.9	1414.3
10°	1409.9	1405.6	1399.0	1408.5	1404.8
12.5°	1395.4	1391.1	1385.3	1394.7	1389.6
15°	1378.0	1373.0	1369.3	1378.0	1371.5
17.5°	1357.0	1352.7	1347.6	1356.3	1349.0
20°	1331.7	1328.0	1321.5	1326.6	1323.0
22.5°	1302.7	1297.6	1291.1	1296.9	1291.8
25°	1267.2	1263.6	1255.6	1261.4	1259.2
27.5°	1226.6	1224.4	1215.0	1222.3	1218.6
30°	1183.1	1177.3	1170.1	1172.3	1173.0
32.5°	1133.1	1125.9	1120.1	1115.0	1110.0
35°	1073.0	1066.5	1054.9	1044.0	1032.4
37.5°	1010.7	1002.0	990.4	966.5	952.0
40°	938.2	933.9	915.1	881.7	839.7
42.5°	864.3	860.0	843.3	768.7	723.1
45°	783.9	786.1	761.5	649.2	607.9
47.5°	707.1	712.9	659.3	554.3	532.5
50°	630.3	636.8	560.1	478.9	465.9
52.5°	562.9	557.9	477.5	420.2	414.4
55°	497.7	470.2	410.8	366.6	366.6
57.5°	431.1	392.0	349.2	321.0	321.0
60°	374.6	326.0	296.3	277.5	283.3
62.5°	322.4	271.0	245.6	242.0	249.2
65°	275.3	229.7	199.2	213.0	220.3
67.5°	236.9	196.3	163.7	192.7	197.1
70°	201.4	171.0	138.4	177.5	178.2
72.5°	168.8	150.7	118.8	160.8	163.7
75°	146.4	131.1	109.4	143.5	150.7
77.5°	128.2	112.3	100.7	123.9	137.7
80°	109.4	92.0	93.5	104.3	118.1
82.5°	84.0	71.0	73.9	85.5	96.4
85°	58.0	53.6	50.0	63.0	71.0
87.5°	31.2	29.0	25.4	35.5	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)