

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: P291308

Luminaire Tested: **14GR-LD5-32-A125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291308
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-L92765-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2922.0 lumens
Efficiency: N/A
Efficacy: 112.6 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

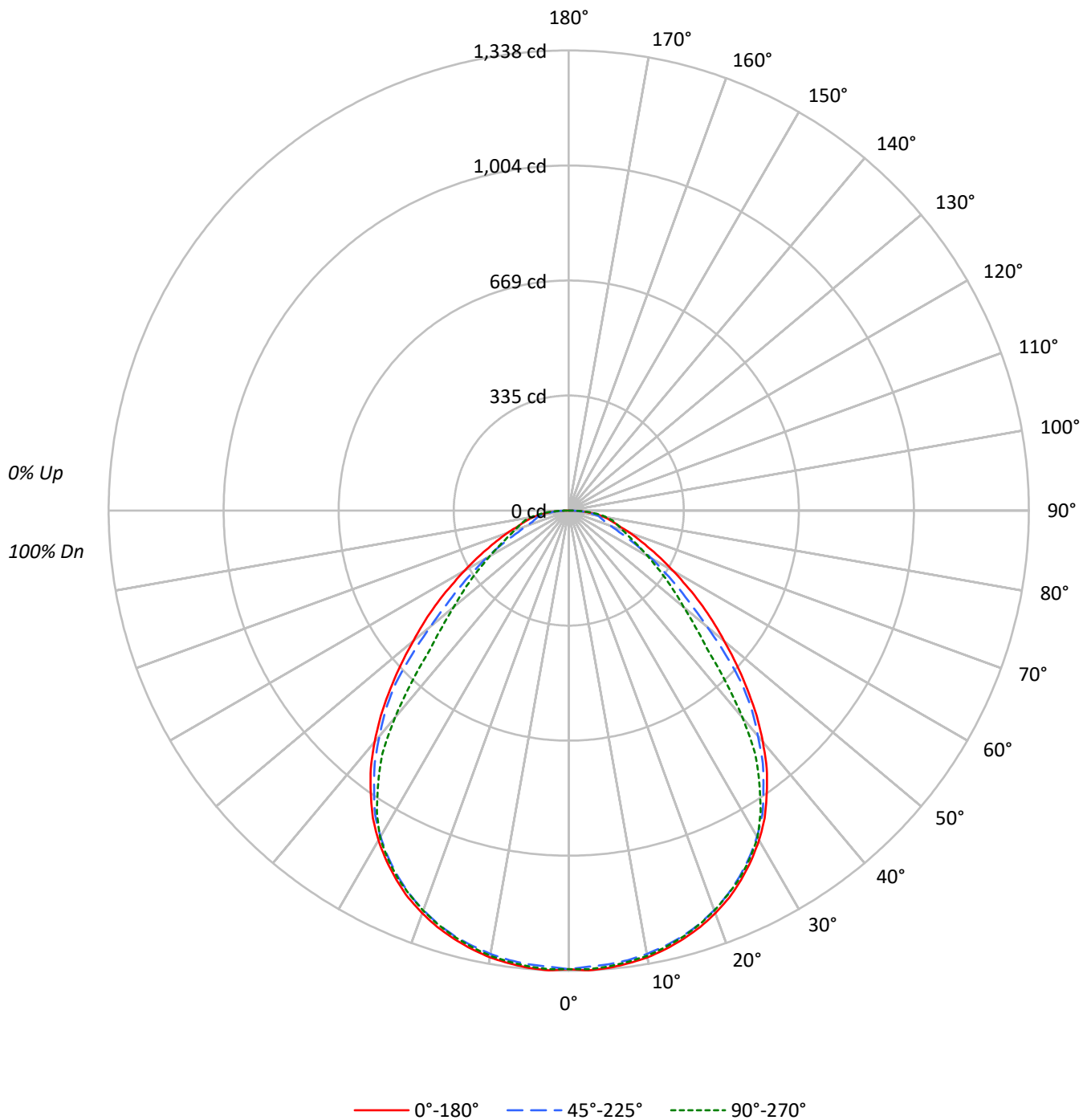
Input Watts (W): 25.947
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3588	3588	3588
5°	3606	3578	3595
10°	3605	3577	3592
15°	3592	3569	3575
20°	3568	3541	3545
25°	3520	3488	3498
30°	3440	3402	3410
35°	3298	3242	3173
40°	3084	3008	2760
45°	2791	2712	2164
50°	2469	2194	1825
55°	2185	1803	1609
60°	1886	1492	1427
65°	1640	1187	1312
70°	1483	1019	1312
75°	1423	1065	1466
80°	1587	1354	1712
85°	1673	1445	2050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.5	4.3
10°-20°	362.5	12.4
20°-30°	542.5	18.6
30°-40°	614.1	21.0
40°-50°	523.0	17.9
50°-60°	354.1	12.1
60°-70°	211.4	7.2
70°-80°	132.1	4.5
80°-90°	55.8	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°	1031.4	35.3
0°-40°	1645.5	56.3
0°-60°	2522.6	86.3
0°-90°	2922.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2922.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1333	1333	1333	1333	1333	
5°	1335	1331	1325	1333	1331	127
15°	1289	1285	1281	1289	1283	364
25°	1186	1182	1175	1180	1178	545
35°	1004	998	987	977	966	626
45°	734	736	712	607	569	566
55°	466	440	384	343	343	416
65°	258	215	186	199	206	260
75°	137	123	102	134	141	148
85°	54	50	47	59	66	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1333.4	1333.4	1333.4	1333.4	1333.4
2.5°	1338.1	1334.8	1327.3	1336.1	1334.8
5°	1334.8	1331.4	1324.6	1332.7	1330.7
7.5°	1328.0	1324.6	1318.5	1326.6	1323.2
10°	1319.2	1315.1	1309.0	1317.8	1314.4
12.5°	1305.6	1301.5	1296.1	1304.9	1300.2
15°	1289.3	1284.6	1281.2	1289.3	1283.2
17.5°	1269.7	1265.6	1260.9	1269.0	1262.2
20°	1246.0	1242.6	1236.5	1241.2	1237.8
22.5°	1218.8	1214.1	1208.0	1213.4	1208.7
25°	1185.6	1182.2	1174.8	1180.2	1178.2
27.5°	1147.7	1145.6	1136.8	1143.6	1140.2
30°	1107.0	1101.6	1094.8	1096.8	1097.5
32.5°	1060.2	1053.4	1048.0	1043.3	1038.5
35°	1003.9	997.8	987.0	976.8	966.0
37.5°	945.7	937.5	926.7	904.3	890.7
40°	877.9	873.8	856.2	825.0	785.7
42.5°	808.7	804.6	789.1	719.2	676.5
45°	733.5	735.5	712.5	607.4	568.7
47.5°	661.6	667.0	616.9	518.6	498.2
50°	589.8	595.9	524.0	448.1	435.9
52.5°	526.7	522.0	446.7	393.2	387.8
55°	465.7	439.9	384.4	343.0	343.0
57.5°	403.3	366.7	326.7	300.3	300.3
60°	350.5	305.0	277.3	259.6	265.1
62.5°	301.7	253.5	229.8	226.4	233.2
65°	257.6	214.9	186.4	199.3	206.1
67.5°	221.7	183.7	153.2	180.3	184.4
70°	188.5	160.0	129.5	166.1	166.8
72.5°	157.9	141.0	111.2	150.5	153.2
75°	136.9	122.7	102.4	134.2	141.0
77.5°	120.0	105.1	94.2	115.9	128.8
80°	102.4	86.1	87.4	97.6	110.5
82.5°	78.6	66.4	69.1	80.0	90.2
85°	54.2	50.2	46.8	59.0	66.4
87.5°	29.1	27.1	23.7	33.2	33.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)