

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: P290815

Luminaire Tested: **14GR-LD5-32-F125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290815
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-32-F125-UNV-L82765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3001.0 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

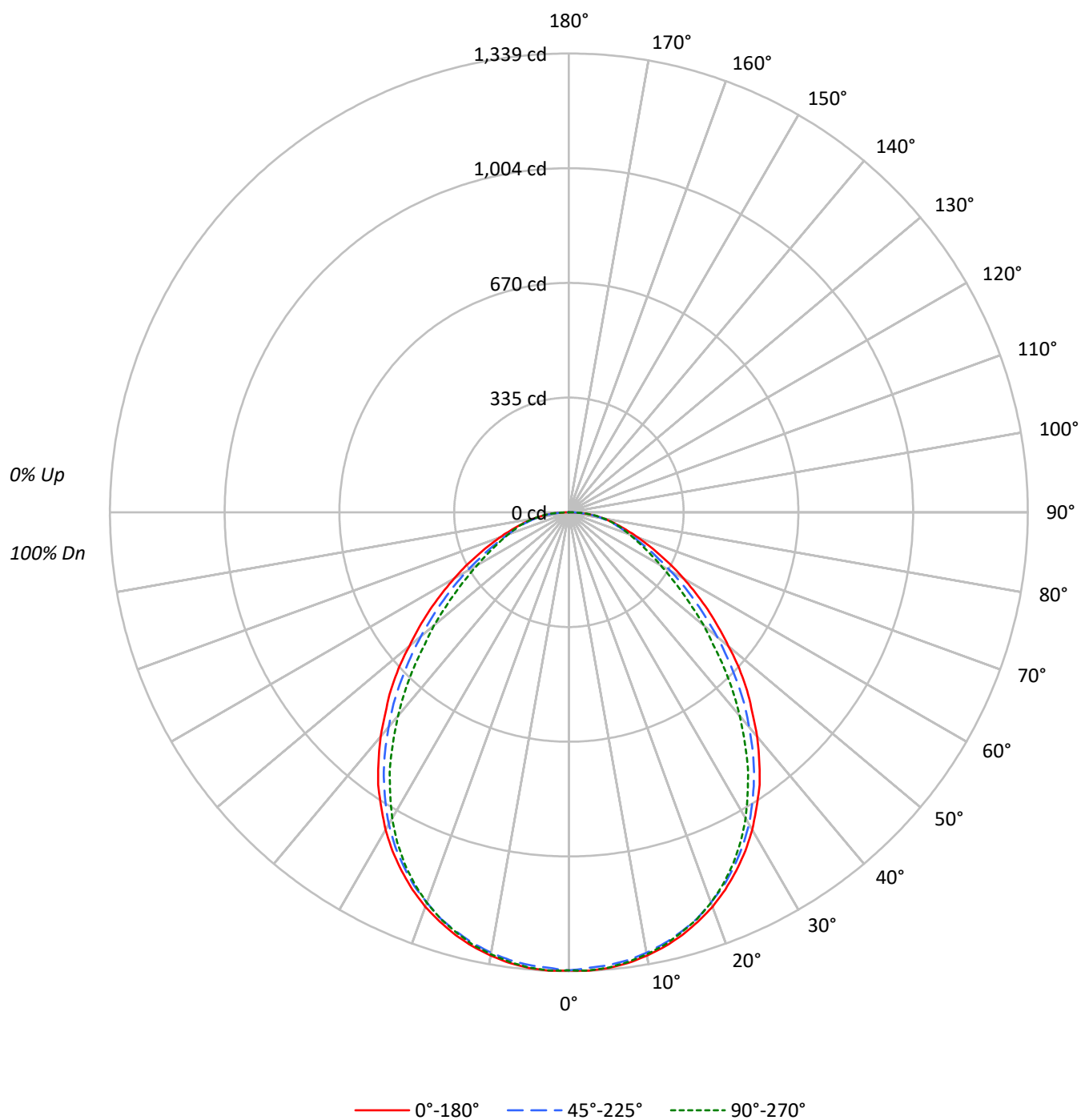
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	101	93	87	81	98	91	85	80	88	83	78		84	80	77		81
3	92	83	75	69	90	81	74	68	78	72	67		75	70	66		73
4	85	74	66	59	83	73	65	59	70	64	58		68	62	58		66
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		60
6	73	60	52	46	71	60	52	46	58	51	45		56	50	45		55
7	68	55	47	41	66	54	47	41	53	46	41		51	45	40		50
8	64	51	43	37	62	50	42	37	49	42	37		47	41	36		46
9	60	47	39	34	58	46	39	33	45	38	33		44	38	33		43
10	56	43	36	31	55	43	35	31	42	35	30		41	35	30		40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3598	3598	3598
5°	3606	3583	3602
10°	3590	3566	3578
15°	3558	3530	3536
20°	3508	3469	3471
25°	3428	3386	3363
30°	3323	3265	3204
35°	3186	3094	2992
40°	3001	2873	2722
45°	2799	2630	2434
50°	2545	2359	2150
55°	2317	2092	1874
60°	2077	1842	1664
65°	1852	1642	1529
70°	1685	1496	1480
75°	1574	1458	1530
80°	1582	1506	1593
85°	1652	1544	1763



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.4	4.2
10°-20°	358.4	11.9
20°-30°	525.5	17.5
30°-40°	586.5	19.5
40°-50°	531.0	17.7
50°-60°	400.9	13.4
60°-70°	262.1	8.7
70°-80°	153.9	5.1
80°-90°	56.4	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°	1010.3	33.7
0°-40°	1596.7	53.2
0°-60°	2528.6	84.3
0°-90°	3001.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3001.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1337	1337	1337	1337	1337	
5°	1335	1332	1326	1334	1333	127
15°	1277	1275	1267	1274	1269	360
25°	1154	1150	1140	1138	1133	531
35°	970	962	942	921	911	604
45°	735	724	691	654	640	565
55°	494	482	446	411	399	442
65°	291	282	258	243	240	292
75°	151	147	140	143	147	163
85°	54	51	50	56	57	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1336.9	1336.9	1336.9	1336.9	1336.9
2.5°	1339.0	1336.9	1330.6	1339.0	1338.3
5°	1334.8	1332.0	1326.4	1334.1	1333.4
7.5°	1326.4	1323.5	1317.9	1325.0	1323.5
10°	1313.7	1310.9	1305.2	1313.0	1309.5
12.5°	1297.5	1294.7	1288.3	1295.4	1292.6
15°	1277.1	1274.9	1267.2	1274.2	1269.3
17.5°	1252.4	1248.9	1243.2	1247.5	1243.9
20°	1224.9	1220.7	1211.5	1215.8	1212.2
22.5°	1191.8	1186.2	1179.8	1179.8	1174.9
25°	1154.5	1150.3	1140.4	1138.3	1132.7
27.5°	1114.3	1110.8	1098.1	1094.6	1084.8
30°	1069.3	1064.3	1050.9	1039.7	1031.2
32.5°	1019.2	1015.7	997.4	982.6	970.6
35°	969.9	961.5	941.8	920.6	910.8
37.5°	912.2	905.8	881.2	855.1	841.7
40°	854.4	846.7	817.8	788.9	774.8
42.5°	791.7	784.7	757.2	722.7	707.9
45°	735.4	724.1	691.0	653.7	639.6
47.5°	673.4	661.4	626.2	586.8	570.6
50°	607.9	600.1	563.5	525.5	513.5
52.5°	549.4	537.4	502.9	465.6	452.9
55°	493.8	482.5	445.9	410.7	399.4
57.5°	438.1	425.4	393.8	362.1	350.8
60°	386.0	373.3	342.3	316.3	309.2
62.5°	338.8	324.7	297.3	276.8	271.9
65°	290.9	281.8	257.8	243.0	240.2
67.5°	250.8	239.5	220.5	213.4	212.0
70°	214.1	206.4	190.2	188.1	188.1
72.5°	181.0	174.7	162.7	164.1	166.2
75°	151.4	147.2	140.2	143.0	147.2
77.5°	126.1	121.9	117.6	121.9	124.7
80°	102.1	97.9	97.2	100.7	102.8
82.5°	76.8	73.3	74.0	79.6	81.7
85°	53.5	51.4	50.0	56.4	57.1
87.5°	27.5	26.1	25.4	30.3	28.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)