

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: P290769

Luminaire Tested: **14GR-LD5-32-F125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290769
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-L83050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3270.0 lumens
Efficiency: N/A
Efficacy: 127.4 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

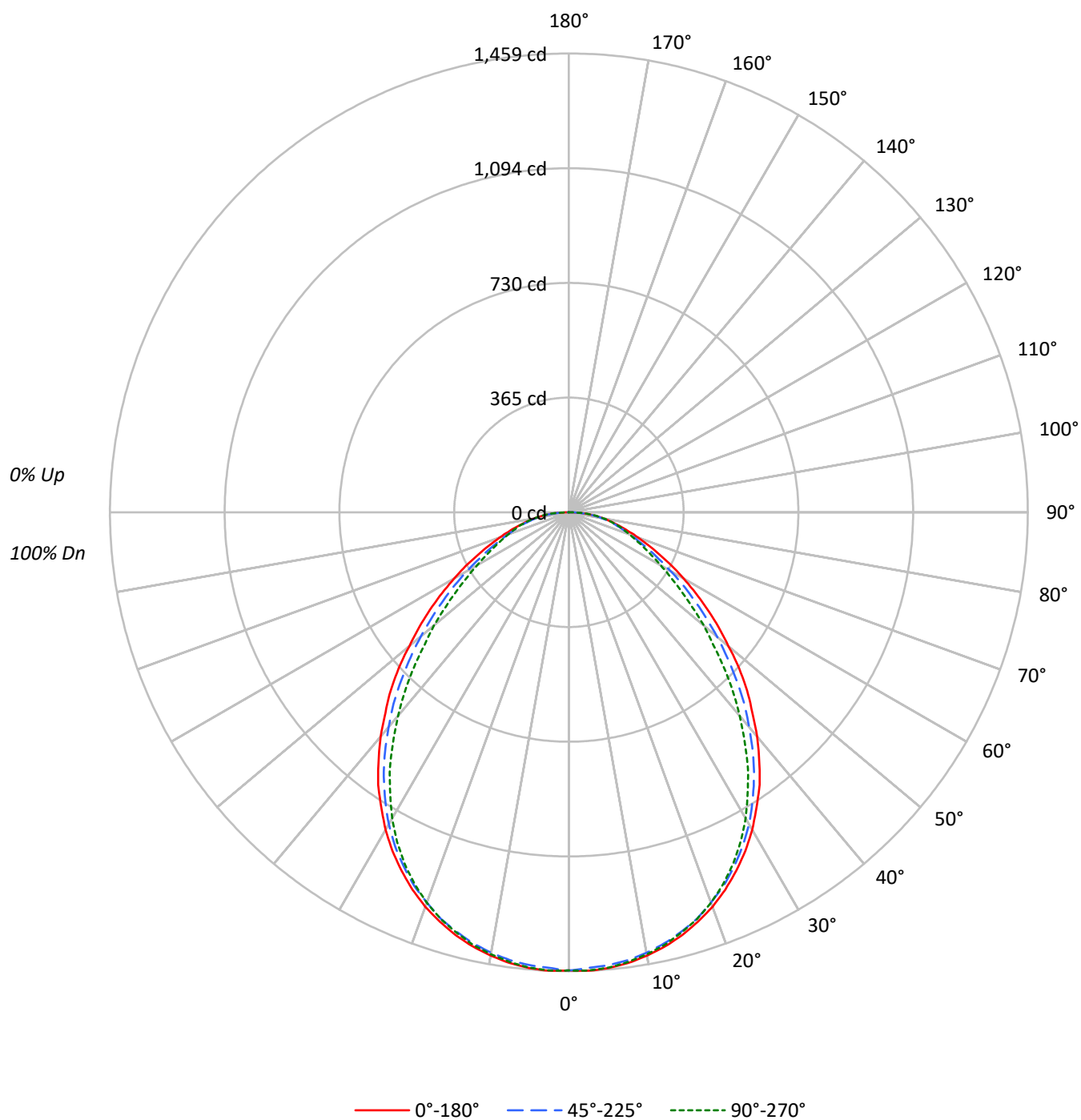
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	105	101	98	107	103	99	96		99	96	93		95	92	90		91	89	88
2	101	93	87	81	98	91	85	80		88	83	78		84	80	77		81	78	75
3	92	83	75	69	90	81	74	68		78	72	67		75	70	66		73	69	65
4	85	74	66	59	83	73	65	59		70	64	58		68	62	58		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	60	52	46	71	60	52	46		58	51	45		56	50	45		55	49	45
7	68	55	47	41	66	54	47	41		53	46	41		51	45	40		50	44	40
8	64	51	43	37	62	50	42	37		49	42	37		47	41	36		46	41	36
9	60	47	39	34	58	46	39	33		45	38	33		44	38	33		43	37	33
10	56	43	36	31	55	43	35	31		42	35	30		41	35	30		40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3920	3920	3920
5°	3929	3904	3925
10°	3911	3886	3899
15°	3877	3847	3853
20°	3822	3780	3783
25°	3735	3689	3665
30°	3620	3558	3492
35°	3472	3371	3260
40°	3270	3130	2966
45°	3049	2865	2652
50°	2773	2570	2342
55°	2524	2279	2042
60°	2264	2007	1813
65°	2018	1789	1666
70°	1836	1630	1612
75°	1716	1588	1668
80°	1725	1641	1737
85°	1800	1683	1920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	4.2
10°-20°	390.5	11.9
20°-30°	572.6	17.5
30°-40°	639.1	19.5
40°-50°	578.6	17.7
50°-60°	436.8	13.4
60°-70°	285.6	8.7
70°-80°	167.7	5.1
80°-90°	61.4	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°	1100.8	33.7
0°-40°	1739.9	53.2
0°-60°	2755.3	84.3
0°-90°	3270.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3270.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1457	1457	1457	1457	1457	
5°	1454	1451	1445	1454	1453	138
15°	1392	1389	1381	1388	1383	392
25°	1258	1253	1243	1240	1234	579
35°	1057	1048	1026	1003	992	658
45°	801	789	753	712	697	616
55°	538	526	486	448	435	481
65°	317	307	281	265	262	318
75°	165	160	153	156	160	177
85°	58	56	54	61	62	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1456.8	1456.8	1456.8	1456.8	1456.8
2.5°	1459.1	1456.8	1449.9	1459.1	1458.3
5°	1454.5	1451.4	1445.3	1453.7	1452.9
7.5°	1445.3	1442.2	1436.0	1443.7	1442.2
10°	1431.4	1428.4	1422.2	1430.7	1426.8
12.5°	1413.8	1410.7	1403.8	1411.5	1408.4
15°	1391.5	1389.2	1380.8	1388.5	1383.1
17.5°	1364.7	1360.8	1354.7	1359.3	1355.5
20°	1334.7	1330.1	1320.1	1324.7	1320.9
22.5°	1298.7	1292.5	1285.6	1285.6	1280.2
25°	1258.0	1253.4	1242.6	1240.3	1234.2
27.5°	1214.2	1210.4	1196.6	1192.7	1182.0
30°	1165.1	1159.7	1145.1	1132.9	1123.7
32.5°	1110.6	1106.8	1086.8	1070.7	1057.7
35°	1056.9	1047.7	1026.2	1003.2	992.4
37.5°	993.9	987.0	960.2	931.8	917.2
40°	931.0	922.6	891.1	859.6	844.3
42.5°	862.7	855.0	825.1	787.5	771.4
45°	801.3	789.0	752.9	712.3	696.9
47.5°	733.8	720.7	682.3	639.3	621.7
50°	662.4	653.9	614.0	572.6	559.5
52.5°	598.7	585.6	548.0	507.3	493.5
55°	538.0	525.8	485.8	447.5	435.2
57.5°	477.4	463.6	429.0	394.5	382.2
60°	420.6	406.8	373.0	344.6	336.9
62.5°	369.2	353.8	323.9	301.6	296.3
65°	317.0	307.0	280.9	264.8	261.7
67.5°	273.2	261.0	240.2	232.6	231.0
70°	233.3	224.9	207.2	204.9	204.9
72.5°	197.3	190.3	177.3	178.8	181.1
75°	165.0	160.4	152.7	155.8	160.4
77.5°	137.4	132.8	128.2	132.8	135.9
80°	111.3	106.7	105.9	109.8	112.1
82.5°	83.7	79.8	80.6	86.7	89.0
85°	58.3	56.0	54.5	61.4	62.2
87.5°	29.9	28.4	27.6	33.0	31.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)