

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: P290818

Luminaire Tested: **14GR-LD5-32-F125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290818
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-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3264.0 lumens
Efficiency: N/A
Efficacy: 125.8 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

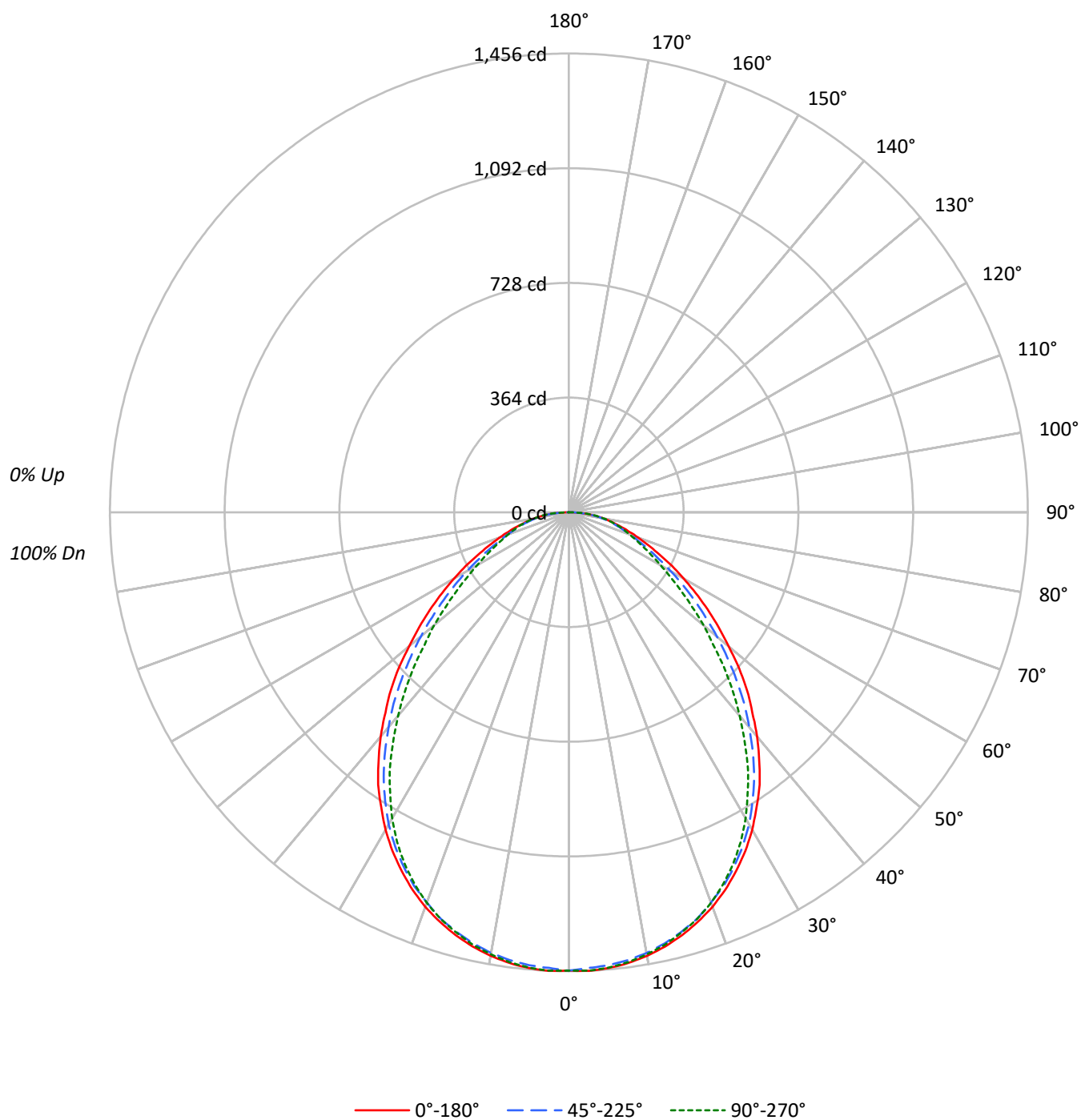
Input Watts (W): 25.947
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3913	3913	3913
5°	3922	3897	3918
10°	3904	3879	3892
15°	3870	3840	3846
20°	3815	3773	3776
25°	3728	3683	3658
30°	3614	3552	3485
35°	3465	3365	3254
40°	3264	3125	2960
45°	3044	2860	2647
50°	2768	2566	2338
55°	2519	2275	2038
60°	2259	2004	1810
65°	2015	1785	1663
70°	1832	1628	1610
75°	1712	1586	1665
80°	1722	1638	1734
85°	1797	1680	1917



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.5	4.2
10°-20°	389.8	11.9
20°-30°	571.5	17.5
30°-40°	637.9	19.5
40°-50°	577.5	17.7
50°-60°	436.0	13.4
60°-70°	285.0	8.7
70°-80°	167.4	5.1
80°-90°	61.3	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°	1098.8	33.7
0°-40°	1736.7	53.2
0°-60°	2750.2	84.3
0°-90°	3264.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3264.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1454	1454	1454	1454	1454	
5°	1452	1449	1443	1451	1450	138
15°	1389	1387	1378	1386	1380	391
25°	1256	1251	1240	1238	1232	578
35°	1055	1046	1024	1001	991	657
45°	800	788	752	711	696	615
55°	537	525	485	447	434	481
65°	316	306	280	264	261	317
75°	165	160	152	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°	1454.1	1454.1	1454.1	1454.1	1454.1
2.5°	1456.4	1454.1	1447.2	1456.4	1455.6
5°	1451.8	1448.7	1442.6	1451.0	1450.3
7.5°	1442.6	1439.5	1433.4	1441.1	1439.5
10°	1428.8	1425.7	1419.6	1428.0	1424.2
12.5°	1411.2	1408.1	1401.2	1408.9	1405.8
15°	1389.0	1386.7	1378.2	1385.9	1380.5
17.5°	1362.2	1358.3	1352.2	1356.8	1353.0
20°	1332.3	1327.7	1317.7	1322.3	1318.5
22.5°	1296.3	1290.1	1283.2	1283.2	1277.9
25°	1255.7	1251.1	1240.3	1238.0	1231.9
27.5°	1212.0	1208.2	1194.4	1190.5	1179.8
30°	1163.0	1157.6	1143.0	1130.8	1121.6
32.5°	1108.6	1104.7	1084.8	1068.7	1055.7
35°	1054.9	1045.8	1024.3	1001.3	990.6
37.5°	992.1	985.2	958.4	930.1	915.5
40°	929.3	920.9	889.5	858.1	842.7
42.5°	861.1	853.5	823.6	786.0	769.9
45°	799.8	787.6	751.6	711.0	695.6
47.5°	732.4	719.4	681.1	638.2	620.6
50°	661.2	652.7	612.9	571.5	558.5
52.5°	597.6	584.5	547.0	506.4	492.6
55°	537.0	524.8	485.0	446.6	434.4
57.5°	476.5	462.7	428.3	393.8	381.5
60°	419.8	406.0	372.3	344.0	336.3
62.5°	368.5	353.2	323.3	301.1	295.7
65°	316.4	306.4	280.4	264.3	261.2
67.5°	272.7	260.5	239.8	232.1	230.6
70°	232.9	224.5	206.9	204.6	204.6
72.5°	196.9	190.0	177.0	178.5	180.8
75°	164.7	160.1	152.5	155.5	160.1
77.5°	137.1	132.5	127.9	132.5	135.6
80°	111.1	106.5	105.7	109.6	111.9
82.5°	83.5	79.7	80.4	86.6	88.9
85°	58.2	55.9	54.4	61.3	62.1
87.5°	29.9	28.3	27.6	32.9	31.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)