

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: P290833

Luminaire Tested: **14GR-LD5-40-F125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290833
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-LD5-40-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: 3753.0 lumens
Efficiency: N/A
Efficacy: 111.5 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

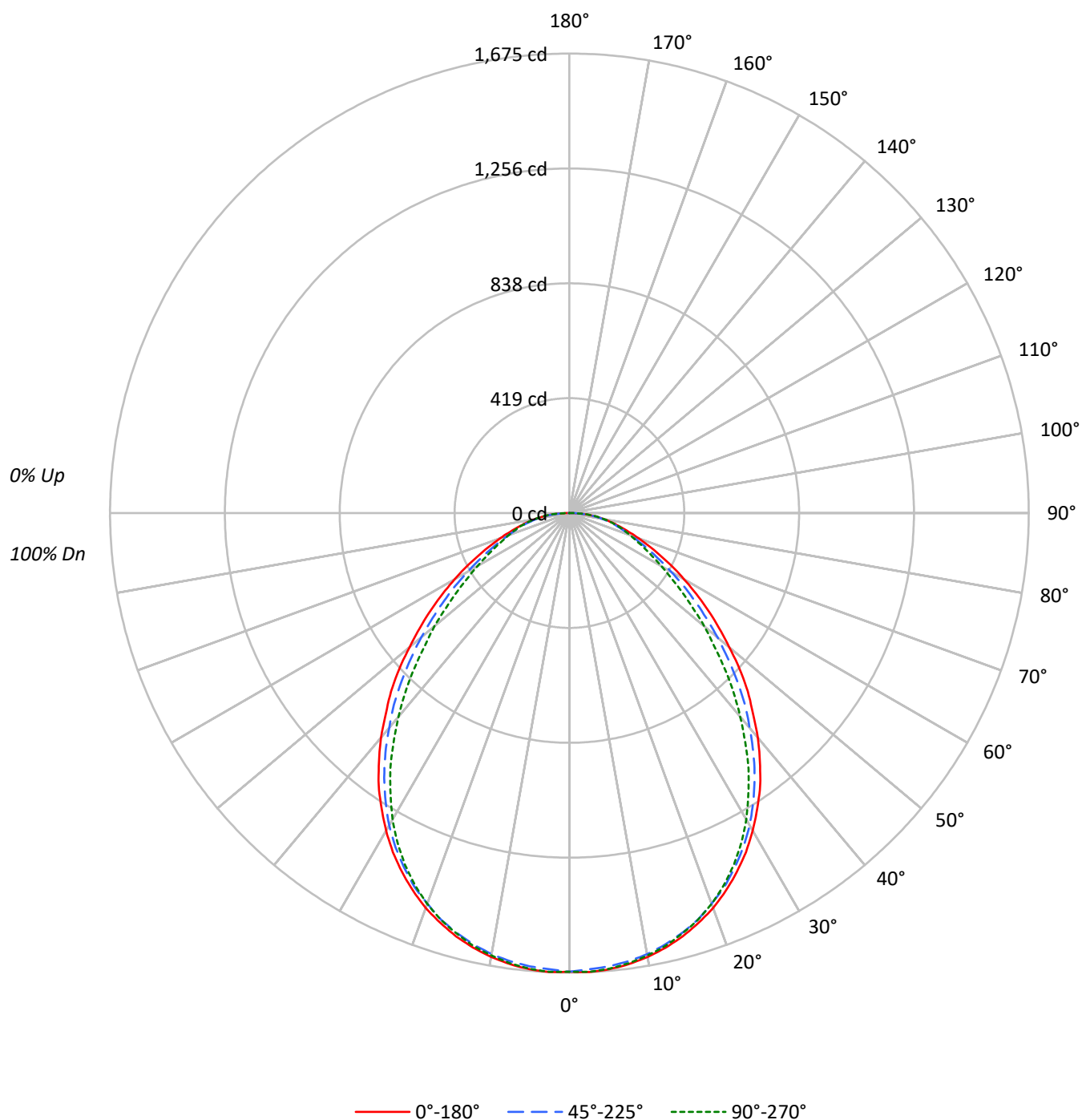
Input Watts (W): 33.666
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4499	4499	4499
5°	4509	4481	4504
10°	4489	4460	4475
15°	4449	4415	4422
20°	4387	4339	4341
25°	4287	4235	4206
30°	4155	4084	4007
35°	3985	3869	3742
40°	3753	3593	3404
45°	3500	3289	3044
50°	3183	2950	2689
55°	2897	2616	2343
60°	2598	2304	2081
65°	2316	2053	1913
70°	2107	1871	1851
75°	1969	1823	1914
80°	1979	1884	1993
85°	2066	1930	2205



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.1	4.2
10°-20°	448.2	11.9
20°-30°	657.1	17.5
30°-40°	733.4	19.5
40°-50°	664.0	17.7
50°-60°	501.4	13.4
60°-70°	327.7	8.7
70°-80°	192.5	5.1
80°-90°	70.5	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°	1263.4	33.7
0°-40°	1996.9	53.2
0°-60°	3162.3	84.3
0°-90°	3753.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3753.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1672	1672	1672	1672	1672	
5°	1669	1666	1659	1668	1668	158
15°	1597	1594	1585	1594	1587	450
25°	1444	1438	1426	1424	1416	664
35°	1213	1202	1178	1151	1139	755
45°	920	906	864	818	800	707
55°	618	603	558	514	500	553
65°	364	352	322	304	300	365
75°	189	184	175	179	184	203
85°	67	64	62	70	71	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1671.9	1671.9	1671.9	1671.9	1671.9
2.5°	1674.6	1671.9	1664.0	1674.6	1673.7
5°	1669.3	1665.8	1658.7	1668.4	1667.5
7.5°	1658.7	1655.2	1648.2	1657.0	1655.2
10°	1642.9	1639.3	1632.3	1642.0	1637.6
12.5°	1622.6	1619.1	1611.2	1620.0	1616.4
15°	1597.1	1594.4	1584.7	1593.5	1587.4
17.5°	1566.2	1561.8	1554.8	1560.1	1555.7
20°	1531.9	1526.6	1515.1	1520.4	1516.0
22.5°	1490.5	1483.4	1475.5	1475.5	1469.3
25°	1443.8	1438.5	1426.2	1423.5	1416.5
27.5°	1393.6	1389.2	1373.3	1368.9	1356.6
30°	1337.2	1331.0	1314.3	1300.2	1289.6
32.5°	1274.7	1270.2	1247.3	1228.8	1213.9
35°	1213.0	1202.4	1177.8	1151.3	1139.0
37.5°	1140.8	1132.8	1102.0	1069.4	1052.7
40°	1068.5	1058.8	1022.7	986.6	969.0
42.5°	990.1	981.3	947.0	903.8	885.3
45°	919.7	905.6	864.2	817.5	799.9
47.5°	842.1	827.2	783.1	733.8	713.5
50°	760.2	750.5	704.7	657.1	642.2
52.5°	687.1	672.1	629.0	582.3	566.4
55°	617.5	603.4	557.6	513.6	499.5
57.5°	547.9	532.1	492.4	452.8	438.7
60°	482.7	466.9	428.1	395.5	386.7
62.5°	423.7	406.1	371.7	346.2	340.0
65°	363.8	352.4	322.4	303.9	300.4
67.5°	313.6	299.5	275.7	266.9	265.1
70°	267.8	258.1	237.8	235.2	235.2
72.5°	226.4	218.5	203.5	205.2	207.9
75°	189.4	184.1	175.3	178.8	184.1
77.5°	157.7	152.4	147.1	152.4	155.9
80°	127.7	122.4	121.6	126.0	128.6
82.5°	96.0	91.6	92.5	99.5	102.2
85°	66.9	64.3	62.5	70.5	71.4
87.5°	34.4	32.6	31.7	37.9	36.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)