

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: P290842

Luminaire Tested: **14GR-LD5-43-F125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290842
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-LD5-43-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: 4004.0 lumens
Efficiency: N/A
Efficacy: 109.6 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

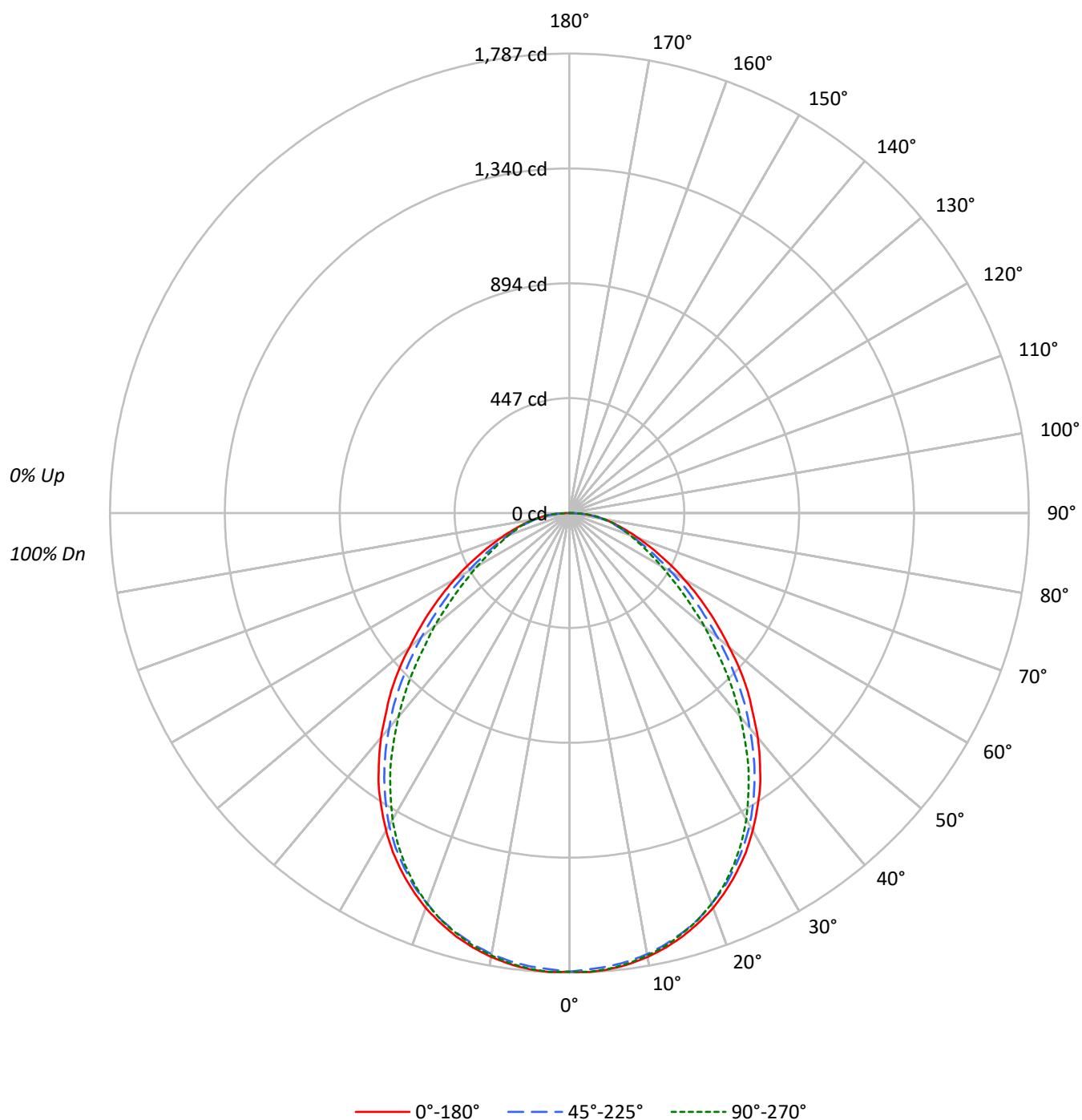
Input Watts (W): 36.549
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4800	4800	4800
5°	4811	4780	4806
10°	4789	4759	4774
15°	4747	4710	4718
20°	4680	4629	4632
25°	4573	4518	4487
30°	4433	4357	4275
35°	4251	4128	3992
40°	4005	3833	3632
45°	3734	3509	3247
50°	3396	3147	2868
55°	3091	2791	2500
60°	2772	2458	2221
65°	2471	2190	2041
70°	2248	1996	1974
75°	2101	1944	2042
80°	2112	2010	2126
85°	2205	2059	2350



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	4.2
10°-20°	478.2	11.9
20°-30°	701.1	17.5
30°-40°	782.5	19.5
40°-50°	708.4	17.7
50°-60°	534.9	13.4
60°-70°	349.7	8.7
70°-80°	205.4	5.1
80°-90°	75.2	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°	1347.9	33.7
0°-40°	2130.4	53.2
0°-60°	3373.8	84.3
0°-90°	4004.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4004.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1784	1784	1784	1784	1784	
5°	1781	1777	1770	1780	1779	169
15°	1704	1701	1691	1700	1694	480
25°	1540	1535	1522	1519	1511	709
35°	1294	1283	1256	1228	1215	806
45°	981	966	922	872	853	754
55°	659	644	595	548	533	589
65°	388	376	344	324	320	389
75°	202	196	187	191	196	217
85°	71	69	67	75	76	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1783.8	1783.8	1783.8	1783.8	1783.8
2.5°	1786.6	1783.8	1775.3	1786.6	1785.6
5°	1780.9	1777.2	1769.7	1780.0	1779.1
7.5°	1769.7	1765.9	1758.4	1767.8	1765.9
10°	1752.7	1749.0	1741.5	1751.8	1747.1
12.5°	1731.1	1727.4	1718.9	1728.3	1724.5
15°	1703.9	1701.1	1690.7	1700.1	1693.5
17.5°	1671.0	1666.3	1658.8	1664.4	1659.7
20°	1634.3	1628.7	1616.5	1622.1	1617.4
22.5°	1590.2	1582.6	1574.2	1574.2	1567.6
25°	1540.3	1534.7	1521.6	1518.7	1511.2
27.5°	1486.8	1482.1	1465.2	1460.5	1447.3
30°	1426.6	1420.1	1402.2	1387.2	1375.9
32.5°	1359.9	1355.2	1330.8	1311.0	1295.1
35°	1294.1	1282.8	1256.5	1228.3	1215.2
37.5°	1217.1	1208.6	1175.7	1140.9	1123.1
40°	1140.0	1129.6	1091.1	1052.6	1033.8
42.5°	1056.3	1046.9	1010.3	964.2	944.5
45°	981.2	966.1	922.0	872.1	853.3
47.5°	898.5	882.5	835.5	782.9	761.2
50°	811.1	800.7	751.8	701.1	685.1
52.5°	733.1	717.1	671.0	621.2	604.3
55°	658.8	643.8	594.9	547.9	532.9
57.5°	584.6	567.6	525.4	483.1	468.0
60°	515.0	498.1	456.7	422.0	412.6
62.5°	452.0	433.3	396.6	369.3	362.8
65°	388.1	375.9	344.0	324.2	320.5
67.5°	334.6	319.5	294.2	284.8	282.9
70°	285.7	275.4	253.7	250.9	250.9
72.5°	241.5	233.1	217.1	219.0	221.8
75°	202.1	196.4	187.0	190.8	196.4
77.5°	168.2	162.6	156.9	162.6	166.3
80°	136.3	130.6	129.7	134.4	137.2
82.5°	102.4	97.7	98.7	106.2	109.0
85°	71.4	68.6	66.7	75.2	76.1
87.5°	36.7	34.8	33.8	40.4	38.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)