

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: P290835

Luminaire Tested: **14GR-LD5-40-F125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290835
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-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: 3995.0 lumens
Efficiency: N/A
Efficacy: 118.0 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

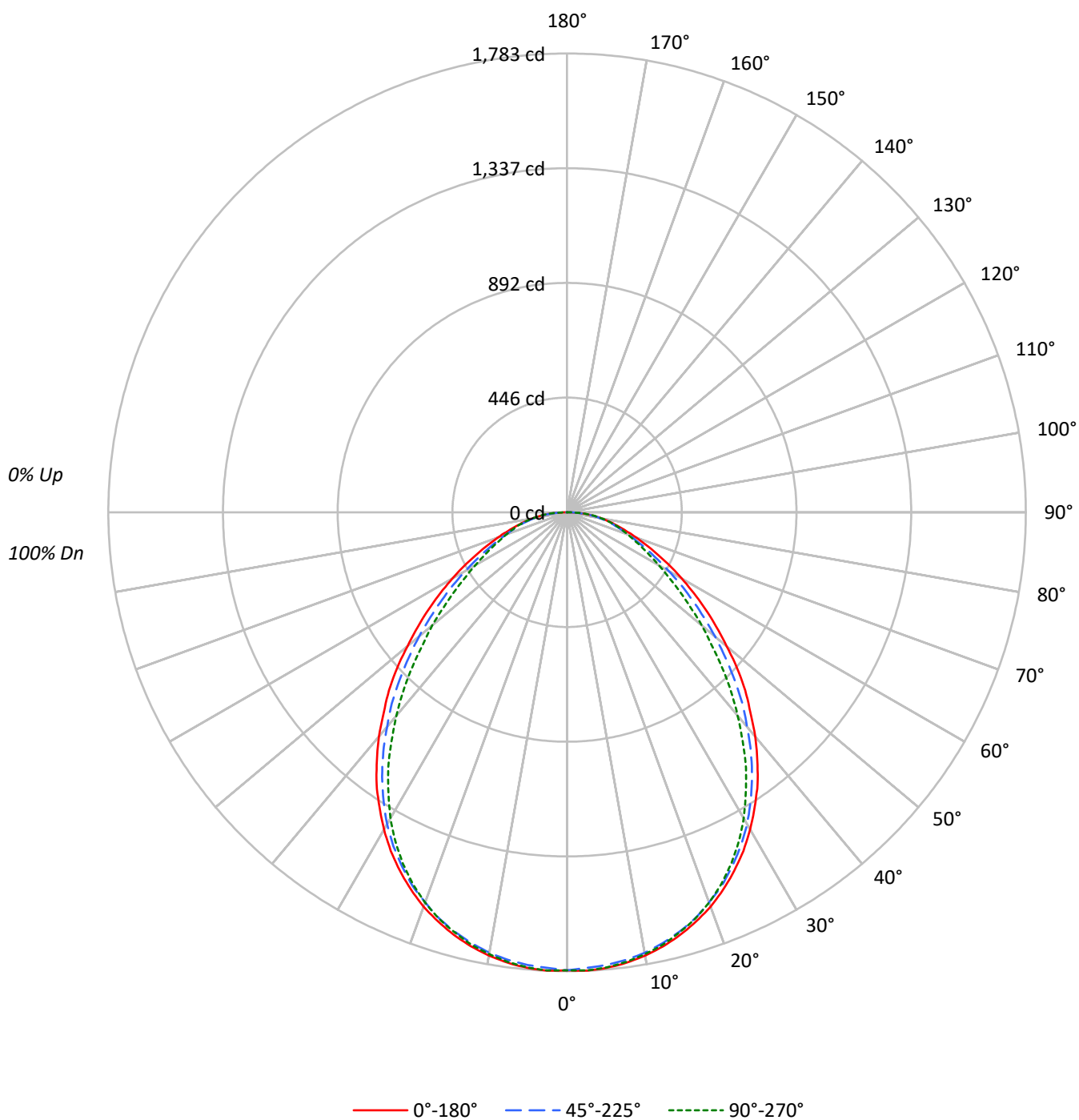
Input Watts (W): 33.852
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4789	4789	4789
5°	4800	4770	4795
10°	4779	4748	4763
15°	4736	4700	4707
20°	4670	4619	4621
25°	4563	4507	4477
30°	4423	4347	4266
35°	4242	4119	3983
40°	3995	3824	3623
45°	3726	3501	3240
50°	3388	3141	2862
55°	3084	2785	2495
60°	2766	2453	2215
65°	2466	2185	2036
70°	2243	1992	1970
75°	2096	1940	2038
80°	2108	2005	2122
85°	2201	2056	2347



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.3	4.2
10°-20°	477.1	11.9
20°-30°	699.5	17.5
30°-40°	780.7	19.5
40°-50°	706.9	17.7
50°-60°	533.7	13.4
60°-70°	348.9	8.7
70°-80°	204.9	5.1
80°-90°	75.0	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°	1344.9	33.7
0°-40°	2125.6	53.2
0°-60°	3366.2	84.3
0°-90°	3995.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3995.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1780	1780	1780	1780	1780	
5°	1777	1773	1766	1776	1775	169
15°	1700	1697	1687	1696	1690	479
25°	1537	1531	1518	1515	1508	707
35°	1291	1280	1254	1226	1212	804
45°	979	964	920	870	851	752
55°	657	642	594	547	532	588
65°	387	375	343	324	320	389
75°	202	196	187	190	196	217
85°	71	68	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°	1779.7	1779.7	1779.7	1779.7	1779.7
2.5°	1782.6	1779.7	1771.3	1782.6	1781.6
5°	1776.9	1773.2	1765.7	1776.0	1775.1
7.5°	1765.7	1761.9	1754.4	1763.8	1761.9
10°	1748.8	1745.1	1737.6	1747.9	1743.2
12.5°	1727.2	1723.5	1715.0	1724.4	1720.7
15°	1700.0	1697.2	1686.9	1696.3	1689.7
17.5°	1667.2	1662.5	1655.0	1660.7	1656.0
20°	1630.7	1625.0	1612.8	1618.5	1613.8
22.5°	1586.6	1579.1	1570.6	1570.6	1564.1
25°	1536.9	1531.3	1518.1	1515.3	1507.8
27.5°	1483.4	1478.7	1461.9	1457.2	1444.1
30°	1423.4	1416.9	1399.0	1384.0	1372.8
32.5°	1356.8	1352.2	1327.8	1308.1	1292.1
35°	1291.2	1280.0	1253.7	1225.6	1212.4
37.5°	1214.3	1205.9	1173.1	1138.4	1120.5
40°	1137.4	1127.1	1088.7	1050.2	1031.5
42.5°	1054.0	1044.6	1008.0	962.1	942.4
45°	979.0	964.0	919.9	870.2	851.4
47.5°	896.4	880.5	833.6	781.1	759.5
50°	809.2	798.9	750.2	699.5	683.6
52.5°	731.4	715.5	669.5	619.8	602.9
55°	657.3	642.3	593.6	546.7	531.7
57.5°	583.2	566.4	524.2	482.0	467.0
60°	513.9	497.0	455.7	421.0	411.6
62.5°	451.0	432.3	395.7	368.5	362.0
65°	387.3	375.1	343.2	323.5	319.8
67.5°	333.8	318.8	293.5	284.1	282.2
70°	285.1	274.7	253.2	250.4	250.4
72.5°	241.0	232.5	216.6	218.5	221.3
75°	201.6	196.0	186.6	190.4	196.0
77.5°	167.8	162.2	156.6	162.2	166.0
80°	136.0	130.3	129.4	134.1	136.9
82.5°	102.2	97.5	98.5	106.0	108.8
85°	71.3	68.5	66.6	75.0	76.0
87.5°	36.6	34.7	33.8	40.3	38.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)