

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: P290836

Luminaire Tested: **14GR-LD5-40-F125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290836
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-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: 4083.0 lumens
Efficiency: N/A
Efficacy: 120.0 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

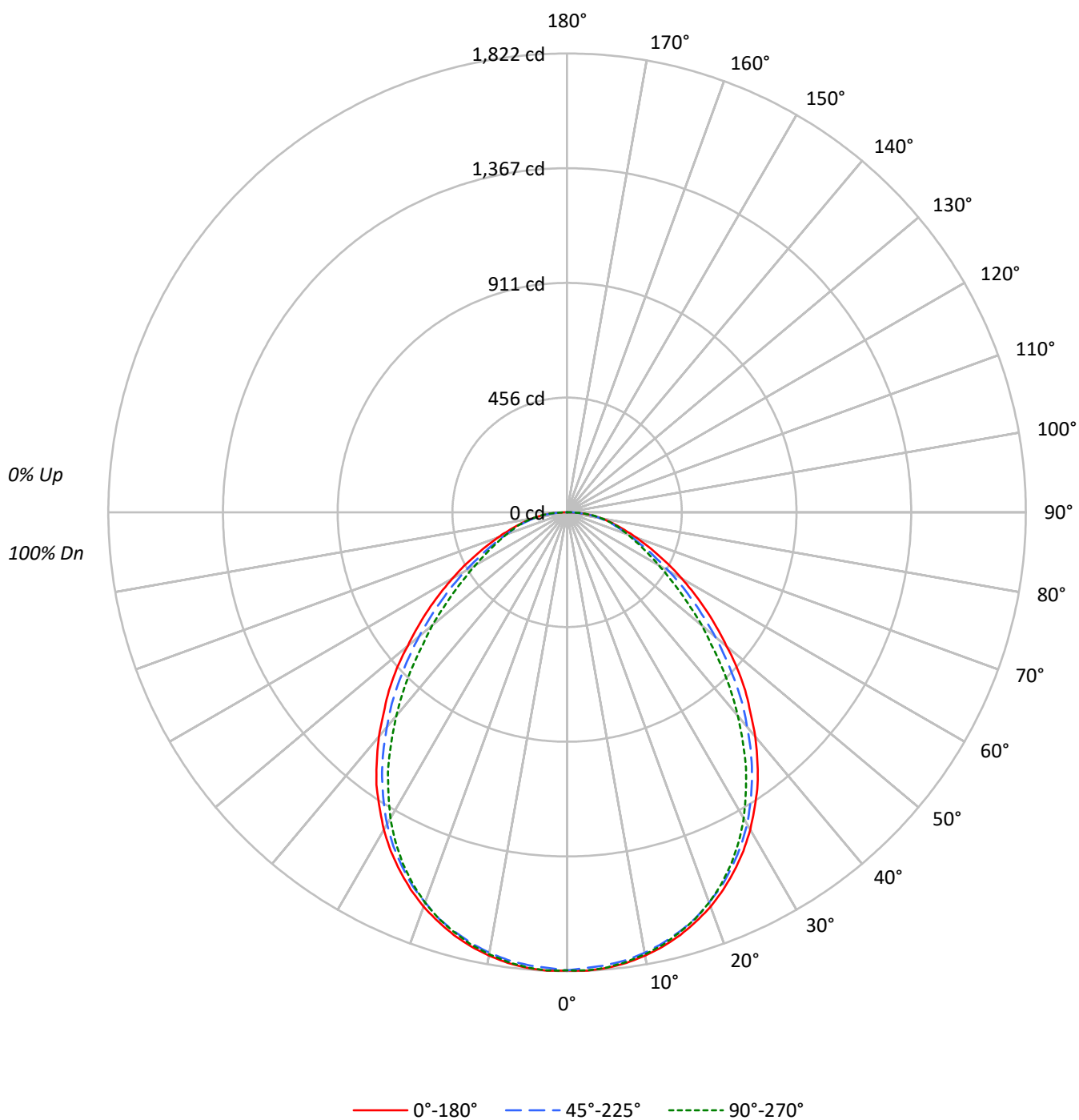
Input Watts (W): 34.038
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4895	4895	4895
5°	4906	4875	4901
10°	4884	4852	4868
15°	4841	4803	4811
20°	4773	4720	4723
25°	4664	4607	4575
30°	4520	4443	4360
35°	4335	4209	4071
40°	4084	3908	3703
45°	3808	3578	3312
50°	3463	3210	2925
55°	3152	2846	2549
60°	2827	2507	2264
65°	2520	2234	2081
70°	2292	2036	2013
75°	2142	1983	2083
80°	2154	2050	2168
85°	2248	2100	2396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.0	4.2
10°-20°	487.6	11.9
20°-30°	714.9	17.5
30°-40°	797.9	19.5
40°-50°	722.4	17.7
50°-60°	545.5	13.4
60°-70°	356.6	8.7
70°-80°	209.4	5.1
80°-90°	76.7	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°	1374.5	33.7
0°-40°	2172.4	53.2
0°-60°	3440.3	84.3
0°-90°	4083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4083.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1819	1819	1819	1819	1819	
5°	1816	1812	1805	1815	1814	172
15°	1738	1735	1724	1734	1727	490
25°	1571	1565	1552	1549	1541	723
35°	1320	1308	1281	1253	1239	822
45°	1000	985	940	889	870	769
55°	672	656	607	559	543	601
65°	396	383	351	331	327	397
75°	206	200	191	194	200	221
85°	73	70	68	77	78	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1819.0	1819.0	1819.0	1819.0	1819.0
2.5°	1821.8	1819.0	1810.3	1821.8	1820.9
5°	1816.1	1812.2	1804.6	1815.1	1814.2
7.5°	1804.6	1800.7	1793.1	1802.7	1800.7
10°	1787.3	1783.5	1775.8	1786.4	1781.6
12.5°	1765.3	1761.4	1752.8	1762.4	1758.6
15°	1737.5	1734.6	1724.1	1733.7	1726.9
17.5°	1703.9	1699.2	1691.5	1697.2	1692.4
20°	1666.6	1660.8	1648.4	1654.1	1649.3
22.5°	1621.5	1613.9	1605.2	1605.2	1598.5
25°	1570.7	1565.0	1551.6	1548.7	1541.0
27.5°	1516.1	1511.3	1494.1	1489.3	1475.9
30°	1454.8	1448.1	1429.9	1414.5	1403.0
32.5°	1386.7	1381.9	1357.0	1336.9	1320.6
35°	1319.6	1308.1	1281.3	1252.6	1239.1
37.5°	1241.1	1232.4	1198.9	1163.4	1145.2
40°	1162.5	1151.9	1112.6	1073.4	1054.2
42.5°	1077.2	1067.6	1030.2	983.3	963.1
45°	1000.5	985.2	940.1	889.3	870.2
47.5°	916.2	899.9	852.0	798.3	776.3
50°	827.1	816.5	766.7	714.9	698.6
52.5°	747.5	731.2	684.3	633.5	616.2
55°	671.8	656.5	606.6	558.7	543.4
57.5°	596.1	578.8	535.7	492.6	477.3
60°	525.2	507.9	465.8	430.3	420.7
62.5°	461.0	441.8	404.4	376.6	369.9
65°	395.8	383.3	350.8	330.6	326.8
67.5°	341.2	325.8	300.0	290.4	288.5
70°	291.3	280.8	258.8	255.9	255.9
72.5°	246.3	237.7	221.4	223.3	226.2
75°	206.0	200.3	190.7	194.5	200.3
77.5°	171.5	165.8	160.0	165.8	169.6
80°	139.0	133.2	132.3	137.0	139.9
82.5°	104.5	99.7	100.6	108.3	111.2
85°	72.8	70.0	68.0	76.7	77.6
87.5°	37.4	35.5	34.5	41.2	39.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)