

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: P290879

Luminaire Tested: **14GR-LD5-40-F125-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290879
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-L93050-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3820.0 lumens
Efficiency: N/A
Efficacy: 109.0 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

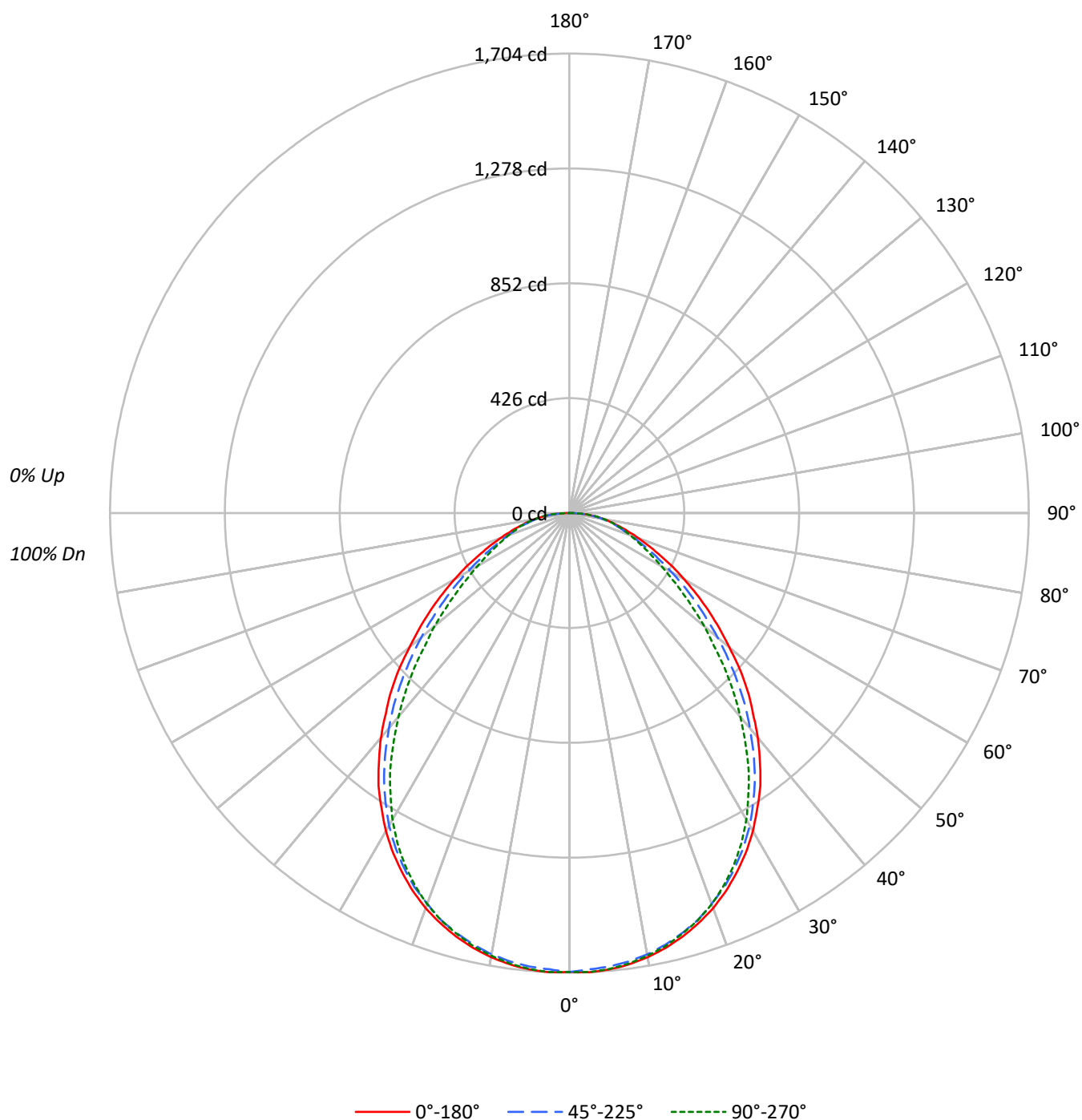
Input Watts (W): 35.061
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	105	101	98	107	103	99	96		99	96	93		95	92	90		91	89	88
2	101	93	87	81	98	91	85	80		88	83	78		84	80	77		81	78	75
3	92	83	75	69	90	81	74	68		78	72	67		75	70	66		73	69	65
4	85	74	66	59	83	73	65	59		70	64	58		68	62	58		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	60	52	46	71	60	52	46		58	51	45		56	50	45		55	49	45
7	68	55	47	41	66	54	47	41		53	46	41		51	45	40		50	44	40
8	64	51	43	37	62	50	42	37		49	42	37		47	41	36		46	41	36
9	60	47	39	34	58	46	39	33		45	38	33		44	38	33		43	37	33
10	56	43	36	31	55	43	35	31		42	35	30		41	35	30		40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4580	4580	4580
5°	4590	4561	4585
10°	4569	4540	4555
15°	4529	4494	4501
20°	4465	4416	4419
25°	4363	4310	4281
30°	4229	4157	4079
35°	4056	3938	3808
40°	3821	3657	3465
45°	3562	3347	3098
50°	3239	3003	2736
55°	2949	2663	2385
60°	2644	2345	2118
65°	2358	2090	1947
70°	2145	1905	1884
75°	2005	1855	1948
80°	2015	1917	2029
85°	2103	1967	2242



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.9	4.2
10°-20°	456.2	11.9
20°-30°	668.9	17.5
30°-40°	746.5	19.5
40°-50°	675.9	17.7
50°-60°	510.3	13.4
60°-70°	333.6	8.7
70°-80°	195.9	5.1
80°-90°	71.7	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°	1286.0	33.7
0°-40°	2032.5	53.2
0°-60°	3218.7	84.3
0°-90°	3820.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3820.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1702	1702	1702	1702	1702	
5°	1699	1696	1688	1698	1697	161
15°	1626	1623	1613	1622	1616	458
25°	1470	1464	1452	1449	1442	676
35°	1235	1224	1199	1172	1159	769
45°	936	922	880	832	814	719
55°	628	614	568	523	508	562
65°	370	359	328	309	306	372
75°	193	187	178	182	187	207
85°	68	66	64	72	73	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1701.8	1701.8	1701.8	1701.8	1701.8
2.5°	1704.5	1701.8	1693.7	1704.5	1703.6
5°	1699.1	1695.5	1688.3	1698.2	1697.3
7.5°	1688.3	1684.8	1677.6	1686.5	1684.8
10°	1672.2	1668.6	1661.4	1671.3	1666.8
12.5°	1651.6	1648.0	1639.9	1648.9	1645.3
15°	1625.6	1622.9	1613.0	1622.0	1615.7
17.5°	1594.2	1589.7	1582.5	1587.9	1583.4
20°	1559.2	1553.8	1542.2	1547.6	1543.1
22.5°	1517.1	1509.9	1501.8	1501.8	1495.6
25°	1469.6	1464.2	1451.6	1448.9	1441.8
27.5°	1418.5	1414.0	1397.8	1393.3	1380.8
30°	1361.1	1354.8	1337.8	1323.4	1312.7
32.5°	1297.4	1292.9	1269.6	1250.8	1235.5
35°	1234.6	1223.9	1198.8	1171.9	1159.3
37.5°	1161.1	1153.1	1121.7	1088.5	1071.5
40°	1087.6	1077.7	1041.0	1004.2	986.3
42.5°	1007.8	998.8	963.9	919.9	901.1
45°	936.1	921.7	879.6	832.1	814.1
47.5°	857.2	841.9	797.1	746.9	726.3
50°	773.8	763.9	717.3	668.9	653.6
52.5°	699.4	684.1	640.2	592.7	576.5
55°	628.5	614.2	567.6	522.7	508.4
57.5°	557.7	541.6	501.2	460.9	446.5
60°	491.3	475.2	435.8	402.6	393.6
62.5°	431.3	413.3	378.4	352.4	346.1
65°	370.3	358.6	328.2	309.3	305.7
67.5°	319.2	304.9	280.6	271.7	269.9
70°	272.6	262.7	242.1	239.4	239.4
72.5°	230.4	222.4	207.1	208.9	211.6
75°	192.8	187.4	178.4	182.0	187.4
77.5°	160.5	155.1	149.7	155.1	158.7
80°	130.0	124.6	123.7	128.2	130.9
82.5°	97.7	93.2	94.1	101.3	104.0
85°	68.1	65.5	63.7	71.7	72.6
87.5°	35.0	33.2	32.3	38.6	36.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)