

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: P290583

Luminaire Tested: **14GR-LD5-40-F1-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-F1-UNV-L83050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4090.1 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

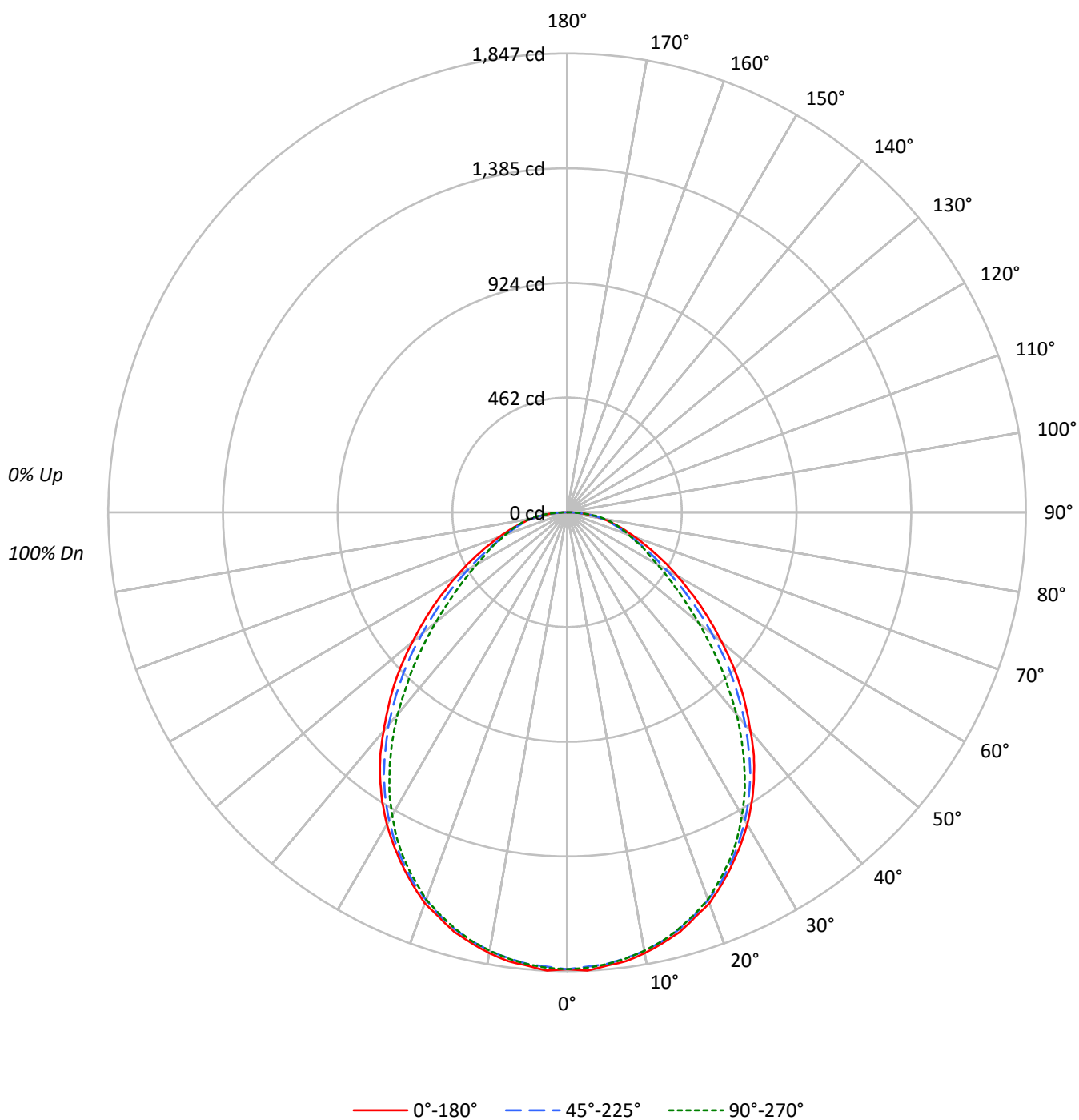
Input Watts (W): 33.666
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	87
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	57		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	61	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		52	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°	4950	4950	4950
5°	4948	4931	4933
10°	4924	4900	4898
15°	4874	4845	4837
20°	4795	4755	4749
25°	4657	4626	4593
30°	4506	4451	4375
35°	4309	4226	4087
40°	4034	3922	3728
45°	3746	3578	3318
50°	3399	3187	2889
55°	3074	2815	2525
60°	2760	2467	2250
65°	2478	2202	2155
70°	2286	2050	2072
75°	2183	2057	2174
80°	2208	2194	2368
85°	2288	2257	2519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.6	4.2
10°-20°	490.9	12.0
20°-30°	716.9	17.5
30°-40°	798.8	19.5
40°-50°	719.8	17.6
50°-60°	538.0	13.2
60°-70°	354.9	8.7
70°-80°	216.7	5.3
80°-90°	80.4	2.0
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°	1381.4	33.8
0°-40°	2180.3	53.3
0°-60°	3438.1	84.1
0°-90°	4090.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4090.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1839	1839	1839	1839	1839	
5°	1832	1830	1825	1835	1826	174
15°	1749	1743	1739	1749	1736	492
25°	1568	1563	1558	1561	1547	722
35°	1312	1300	1286	1264	1244	818
45°	984	974	940	897	872	758
55°	655	645	600	550	538	587
65°	389	377	346	332	338	390
75°	210	206	198	204	209	224
85°	74	71	73	81	82	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1839.4	1839.4	1839.4	1839.4	1839.4
2.5°	1846.9	1838.4	1830.9	1842.2	1835.6
5°	1831.9	1830.0	1825.3	1834.7	1826.3
7.5°	1822.5	1815.9	1810.3	1821.6	1812.2
10°	1801.9	1798.1	1793.4	1802.8	1792.5
12.5°	1776.6	1772.8	1768.1	1779.4	1768.1
15°	1749.4	1742.8	1739.1	1749.4	1736.3
17.5°	1710.0	1707.2	1701.6	1711.9	1698.8
20°	1674.4	1664.1	1660.3	1667.8	1658.4
22.5°	1622.8	1615.3	1614.4	1619.1	1603.1
25°	1568.4	1562.8	1558.1	1560.9	1546.9
27.5°	1511.3	1503.8	1498.1	1497.2	1482.2
30°	1450.3	1440.9	1432.5	1425.0	1408.1
32.5°	1383.8	1372.5	1361.3	1349.1	1331.3
35°	1311.6	1300.3	1286.3	1263.8	1244.1
37.5°	1235.6	1222.5	1200.0	1173.8	1154.1
40°	1148.4	1141.9	1116.6	1082.8	1061.3
42.5°	1066.9	1059.4	1027.5	990.0	960.9
45°	984.4	974.1	940.3	897.2	871.9
47.5°	900.0	889.7	852.2	798.8	776.3
50°	811.9	806.3	761.3	712.5	690.0
52.5°	731.3	724.7	678.8	630.0	609.4
55°	655.3	645.0	600.0	550.3	538.1
57.5°	579.4	568.1	525.9	483.8	475.3
60°	512.8	498.8	458.4	425.6	418.1
62.5°	450.0	434.1	400.3	375.0	371.3
65°	389.1	376.9	345.9	331.9	338.4
67.5°	336.6	324.4	301.9	296.3	294.4
70°	290.6	279.4	260.6	262.5	263.4
72.5°	248.4	241.9	227.8	232.5	236.3
75°	210.0	206.3	197.8	204.4	209.1
77.5°	175.3	172.5	168.8	174.4	181.9
80°	142.5	140.6	141.6	145.3	152.8
82.5°	109.7	105.9	108.8	116.3	120.9
85°	74.1	71.3	73.1	80.6	81.6
87.5°	34.7	34.7	33.8	39.4	39.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)