

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: P290750

Luminaire Tested: **14GR-LD5-43-F1-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290750
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-LD5-43-F1-UNV-L92765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4095.0 lumens
Efficiency: N/A
Efficacy: 109.0 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

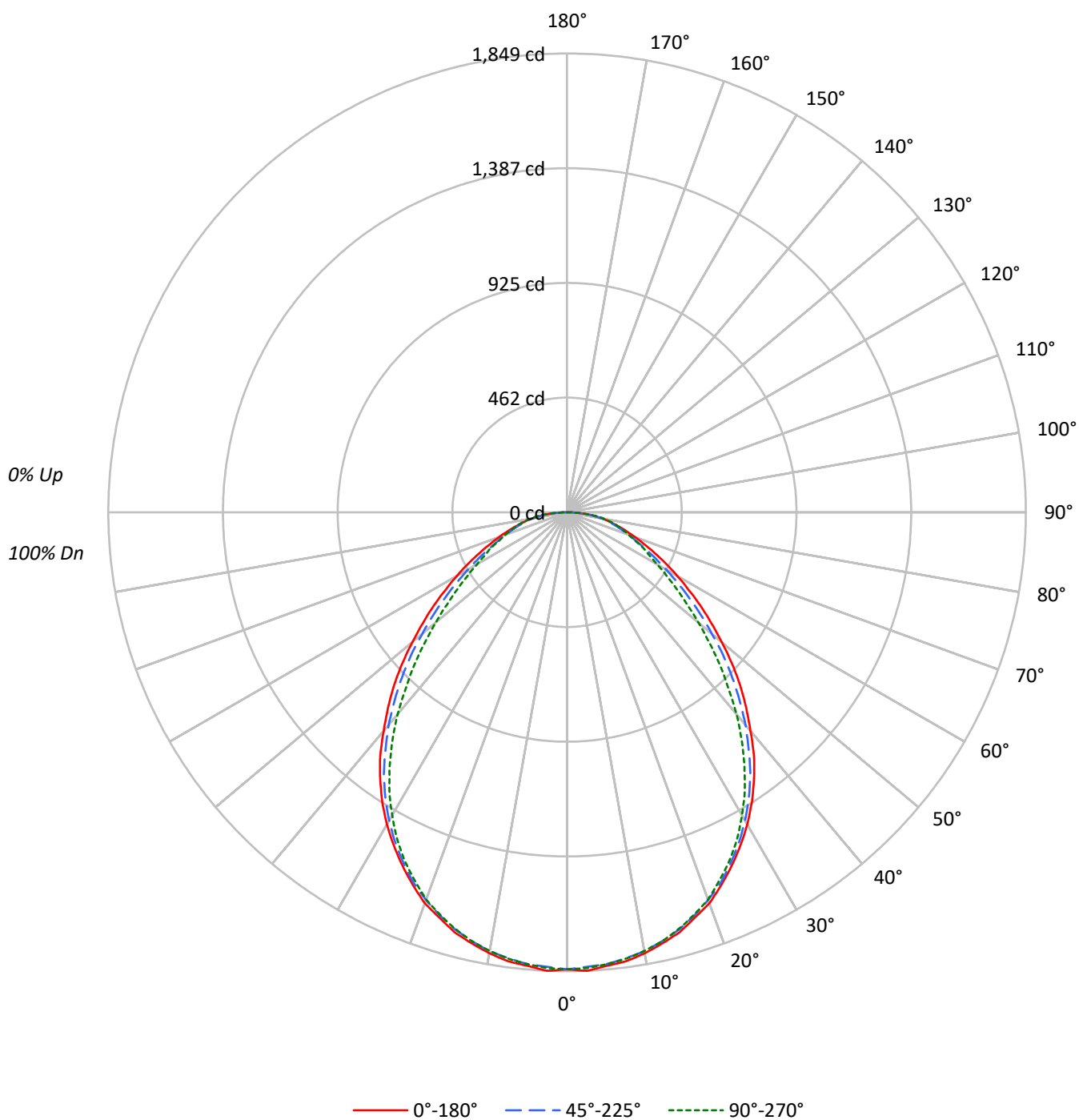
Input Watts (W): 37.572
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4956	4956	4956
5°	4954	4937	4939
10°	4930	4906	4904
15°	4880	4851	4843
20°	4801	4760	4755
25°	4663	4632	4599
30°	4512	4457	4381
35°	4314	4231	4092
40°	4039	3927	3732
45°	3751	3583	3322
50°	3403	3191	2892
55°	3078	2818	2528
60°	2763	2470	2253
65°	2480	2206	2158
70°	2290	2053	2076
75°	2187	2060	2176
80°	2211	2196	2371
85°	2291	2260	2523



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.9	4.2
10°-20°	491.5	12.0
20°-30°	717.8	17.5
30°-40°	799.8	19.5
40°-50°	720.6	17.6
50°-60°	538.7	13.2
60°-70°	355.3	8.7
70°-80°	216.9	5.3
80°-90°	80.5	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°	1383.1	33.8
0°-40°	2182.9	53.3
0°-60°	3442.3	84.1
0°-90°	4095.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4095.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1842	1842	1842	1842	1842	
5°	1834	1832	1828	1837	1828	174
15°	1752	1745	1741	1752	1738	493
25°	1570	1565	1560	1563	1549	723
35°	1313	1302	1288	1265	1246	819
45°	986	975	942	898	873	759
55°	656	646	601	551	539	588
65°	390	377	346	332	339	390
75°	210	206	198	205	209	225
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°	1841.6	1841.6	1841.6	1841.6	1841.6
2.5°	1849.1	1840.7	1833.2	1844.4	1837.9
5°	1834.1	1832.2	1827.5	1836.9	1828.5
7.5°	1824.7	1818.2	1812.5	1823.8	1814.4
10°	1804.1	1800.3	1795.6	1805.0	1794.7
12.5°	1778.7	1775.0	1770.3	1781.6	1770.3
15°	1751.5	1744.9	1741.2	1751.5	1738.4
17.5°	1712.1	1709.3	1703.6	1714.0	1700.8
20°	1676.4	1666.1	1662.3	1669.9	1660.5
22.5°	1624.8	1617.3	1616.3	1621.0	1605.1
25°	1570.4	1564.7	1560.0	1562.8	1548.8
27.5°	1513.1	1505.6	1500.0	1499.0	1484.0
30°	1452.1	1442.7	1434.3	1426.7	1409.8
32.5°	1385.4	1374.2	1362.9	1350.7	1332.9
35°	1313.2	1301.9	1287.8	1265.3	1245.6
37.5°	1237.1	1224.0	1201.5	1175.2	1155.5
40°	1149.8	1143.3	1117.9	1084.1	1062.5
42.5°	1068.2	1060.7	1028.8	991.2	962.1
45°	985.6	975.3	941.5	898.3	872.9
47.5°	901.1	890.8	853.2	799.7	777.2
50°	812.9	807.2	762.2	713.4	690.8
52.5°	732.1	725.6	679.6	630.8	610.1
55°	656.1	645.8	600.7	551.0	538.8
57.5°	580.1	568.8	526.6	484.3	475.9
60°	513.4	499.4	459.0	426.1	418.6
62.5°	450.6	434.6	400.8	375.5	371.7
65°	389.5	377.3	346.4	332.3	338.9
67.5°	337.0	324.8	302.2	296.6	294.7
70°	291.0	279.7	260.9	262.8	263.8
72.5°	248.7	242.2	228.1	232.8	236.5
75°	210.3	206.5	198.1	204.6	209.3
77.5°	175.5	172.7	169.0	174.6	182.1
80°	142.7	140.8	141.7	145.5	153.0
82.5°	109.8	106.1	108.9	116.4	121.1
85°	74.2	71.3	73.2	80.7	81.7
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)