

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: P290751

Luminaire Tested: **14GR-LD5-43-F1-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290751
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-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4113.0 lumens
Efficiency: N/A
Efficacy: 109.2 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

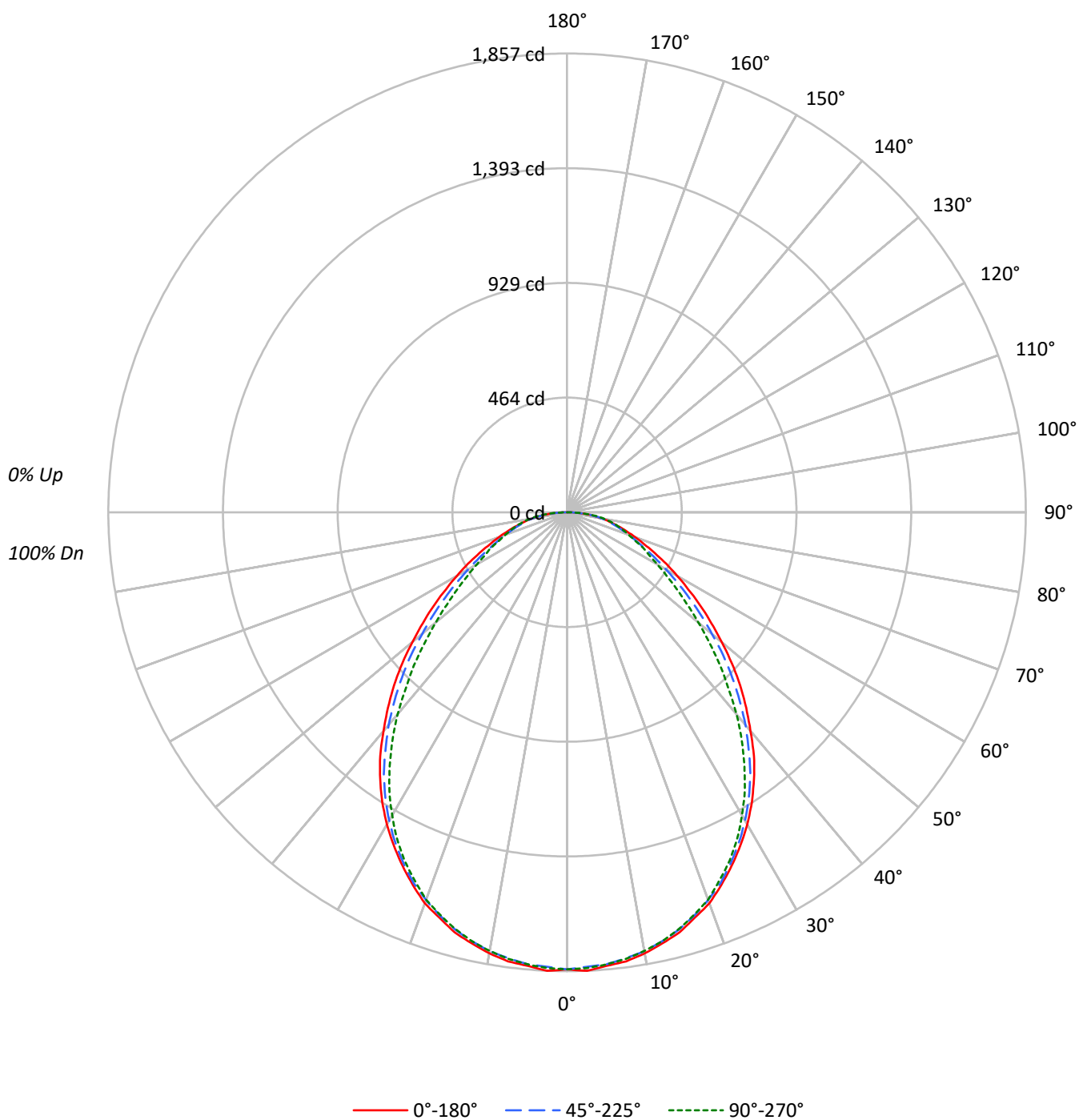
Input Watts (W): 37.665
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4978	4978	4978
5°	4976	4958	4961
10°	4951	4928	4926
15°	4901	4872	4864
20°	4822	4781	4776
25°	4683	4652	4619
30°	4532	4476	4400
35°	4333	4249	4110
40°	4057	3944	3749
45°	3767	3599	3337
50°	3418	3205	2905
55°	3092	2831	2539
60°	2775	2481	2263
65°	2492	2215	2167
70°	2300	2062	2084
75°	2196	2068	2185
80°	2221	2207	2382
85°	2300	2269	2532



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.6	4.2
10°-20°	493.7	12.0
20°-30°	720.9	17.5
30°-40°	803.3	19.5
40°-50°	723.8	17.6
50°-60°	541.1	13.2
60°-70°	356.9	8.7
70°-80°	217.9	5.3
80°-90°	80.8	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°	1389.2	33.8
0°-40°	2192.5	53.3
0°-60°	3457.4	84.1
0°-90°	4113.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4113.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1850	1850	1850	1850	1850	
5°	1842	1840	1836	1845	1836	175
15°	1759	1753	1749	1759	1746	495
25°	1577	1572	1567	1570	1556	726
35°	1319	1308	1294	1271	1251	822
45°	990	980	946	902	877	762
55°	659	649	603	553	541	590
65°	391	379	348	334	340	392
75°	211	207	199	206	210	226
85°	74	72	74	81	82	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1849.7	1849.7	1849.7	1849.7	1849.7
2.5°	1857.3	1848.8	1841.2	1852.5	1845.9
5°	1842.2	1840.3	1835.6	1845.0	1836.5
7.5°	1832.8	1826.2	1820.5	1831.8	1822.4
10°	1812.0	1808.2	1803.5	1813.0	1802.6
12.5°	1786.6	1782.8	1778.1	1789.4	1778.1
15°	1759.2	1752.6	1748.8	1759.2	1746.0
17.5°	1719.6	1716.8	1711.1	1721.5	1708.3
20°	1683.8	1673.4	1669.7	1677.2	1667.8
22.5°	1631.9	1624.4	1623.5	1628.2	1612.1
25°	1577.3	1571.6	1566.9	1569.7	1555.6
27.5°	1519.7	1512.2	1506.6	1505.6	1490.5
30°	1458.5	1449.0	1440.6	1433.0	1416.0
32.5°	1391.5	1380.2	1368.9	1356.6	1338.7
35°	1318.9	1307.6	1293.5	1270.9	1251.1
37.5°	1242.6	1229.4	1206.7	1180.4	1160.6
40°	1154.9	1148.3	1122.8	1088.9	1067.2
42.5°	1072.9	1065.3	1033.3	995.6	966.3
45°	989.9	979.5	945.6	902.2	876.8
47.5°	905.1	894.7	857.0	803.2	780.6
50°	816.4	810.8	765.5	716.5	693.9
52.5°	735.4	728.8	682.6	633.5	612.8
55°	659.0	648.6	603.4	553.4	541.2
57.5°	582.6	571.3	528.9	486.5	478.0
60°	515.7	501.6	461.0	428.0	420.5
62.5°	452.5	436.5	402.6	377.1	373.3
65°	391.3	379.0	347.9	333.7	340.3
67.5°	338.5	326.2	303.6	297.9	296.0
70°	292.3	280.9	262.1	264.0	264.9
72.5°	249.8	243.2	229.1	233.8	237.6
75°	211.2	207.4	198.9	205.5	210.2
77.5°	176.3	173.5	169.7	175.4	182.9
80°	143.3	141.4	142.4	146.1	153.7
82.5°	110.3	106.5	109.4	116.9	121.6
85°	74.5	71.7	73.5	81.1	82.0
87.5°	34.9	34.9	33.9	39.6	39.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)