

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: P290748

Luminaire Tested: **14GR-LD5-43-F1-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290748
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-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3953.0 lumens
Efficiency: N/A
Efficacy: 106.3 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

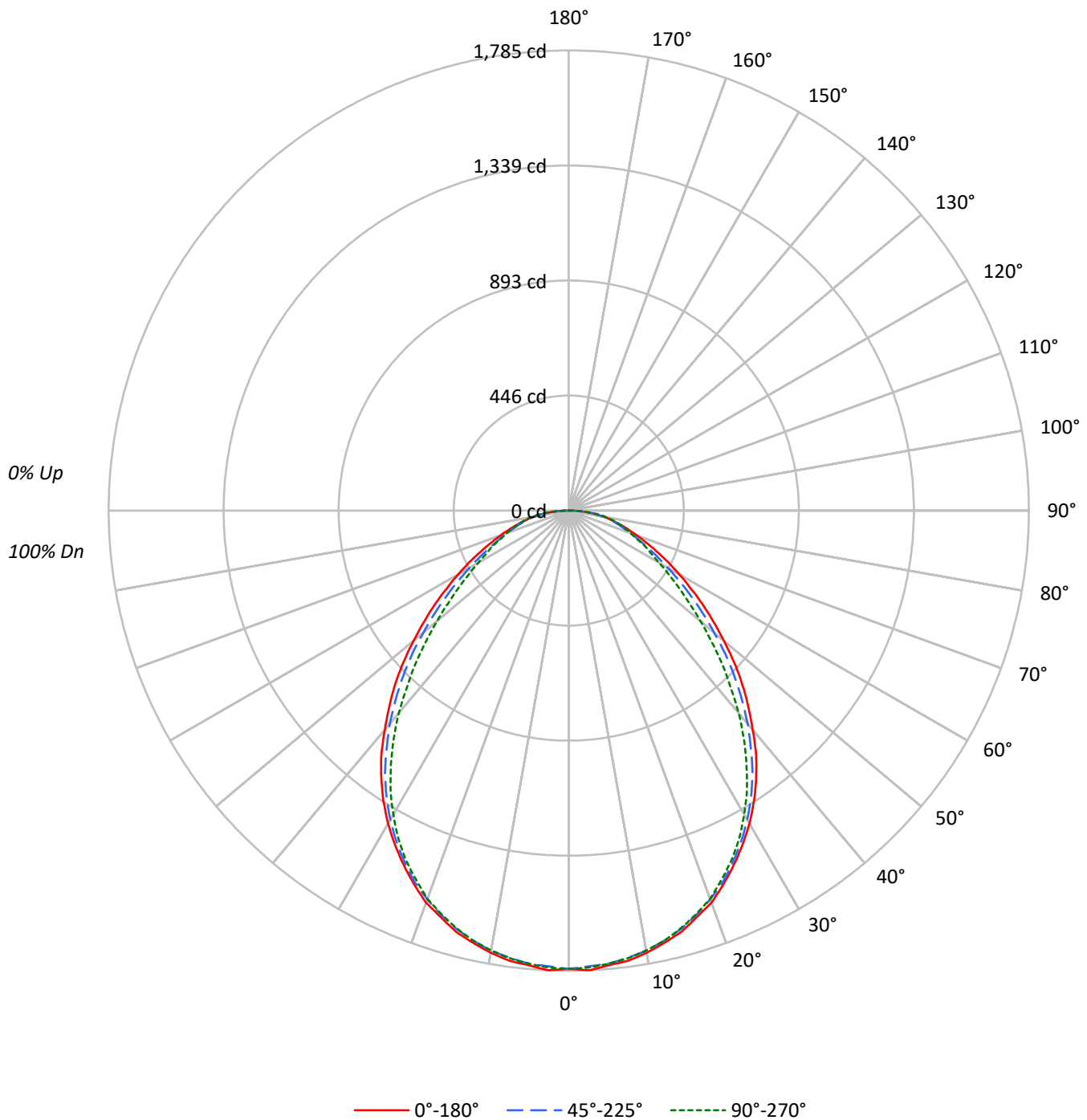
Input Watts (W): 37.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4784	4784	4784
5°	4783	4766	4768
10°	4759	4737	4734
15°	4710	4683	4675
20°	4634	4595	4590
25°	4501	4471	4439
30°	4355	4302	4229
35°	4164	4084	3950
40°	3899	3791	3603
45°	3621	3459	3207
50°	3285	3080	2792
55°	2972	2721	2440
60°	2667	2385	2175
65°	2394	2129	2083
70°	2210	1982	2003
75°	2111	1988	2101
80°	2134	2120	2289
85°	2211	2183	2433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	4.2
10°-20°	474.5	12.0
20°-30°	692.9	17.5
30°-40°	772.1	19.5
40°-50°	695.7	17.6
50°-60°	520.0	13.2
60°-70°	343.0	8.7
70°-80°	209.4	5.3
80°-90°	77.7	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°	1335.2	33.8
0°-40°	2107.2	53.3
0°-60°	3322.9	84.1
0°-90°	3953.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3953.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1778	1778	1778	1778	1778	
5°	1770	1769	1764	1773	1765	168
15°	1691	1684	1681	1691	1678	476
25°	1516	1510	1506	1509	1495	698
35°	1268	1257	1243	1221	1202	790
45°	951	941	909	867	843	732
55°	633	623	580	532	520	567
65°	376	364	334	321	327	377
75°	203	199	191	198	202	217
85°	72	69	71	78	79	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1777.8	1777.8	1777.8	1777.8	1777.8
2.5°	1785.0	1776.9	1769.6	1780.5	1774.1
5°	1770.5	1768.7	1764.2	1773.2	1765.1
7.5°	1761.5	1755.1	1749.7	1760.5	1751.5
10°	1741.5	1737.9	1733.4	1742.4	1732.5
12.5°	1717.1	1713.4	1708.9	1719.8	1708.9
15°	1690.8	1684.4	1680.8	1690.8	1678.1
17.5°	1652.7	1650.0	1644.6	1654.5	1641.8
20°	1618.3	1608.3	1604.7	1611.9	1602.9
22.5°	1568.5	1561.2	1560.3	1564.8	1549.4
25°	1515.9	1510.5	1505.9	1508.7	1495.1
27.5°	1460.6	1453.4	1447.9	1447.0	1432.5
30°	1401.7	1392.7	1384.5	1377.3	1361.0
32.5°	1337.4	1326.5	1315.7	1303.9	1286.7
35°	1267.6	1256.8	1243.2	1221.4	1202.4
37.5°	1194.2	1181.6	1159.8	1134.4	1115.4
40°	1110.0	1103.6	1079.2	1046.5	1025.7
42.5°	1031.1	1023.9	993.1	956.8	928.8
45°	951.4	941.4	908.8	867.1	842.7
47.5°	869.9	859.9	823.6	772.0	750.2
50°	784.7	779.2	735.8	688.6	666.9
52.5°	706.8	700.4	656.0	608.9	589.0
55°	633.4	623.4	579.9	531.9	520.1
57.5°	560.0	549.1	508.3	467.5	459.4
60°	495.6	482.0	443.1	411.4	404.1
62.5°	434.9	419.5	386.9	362.4	358.8
65°	376.0	364.3	334.4	320.8	327.1
67.5°	325.3	313.5	291.8	286.3	284.5
70°	280.9	270.0	251.9	253.7	254.6
72.5°	240.1	233.8	220.2	224.7	228.3
75°	203.0	199.3	191.2	197.5	202.1
77.5°	169.4	166.7	163.1	168.5	175.8
80°	137.7	135.9	136.8	140.4	147.7
82.5°	106.0	102.4	105.1	112.4	116.9
85°	71.6	68.9	70.7	77.9	78.8
87.5°	33.5	33.5	32.6	38.1	38.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)