

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: P290747

Luminaire Tested: **14GR-LD5-43-F1-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290747
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-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3853.0 lumens
Efficiency: N/A
Efficacy: 104.1 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

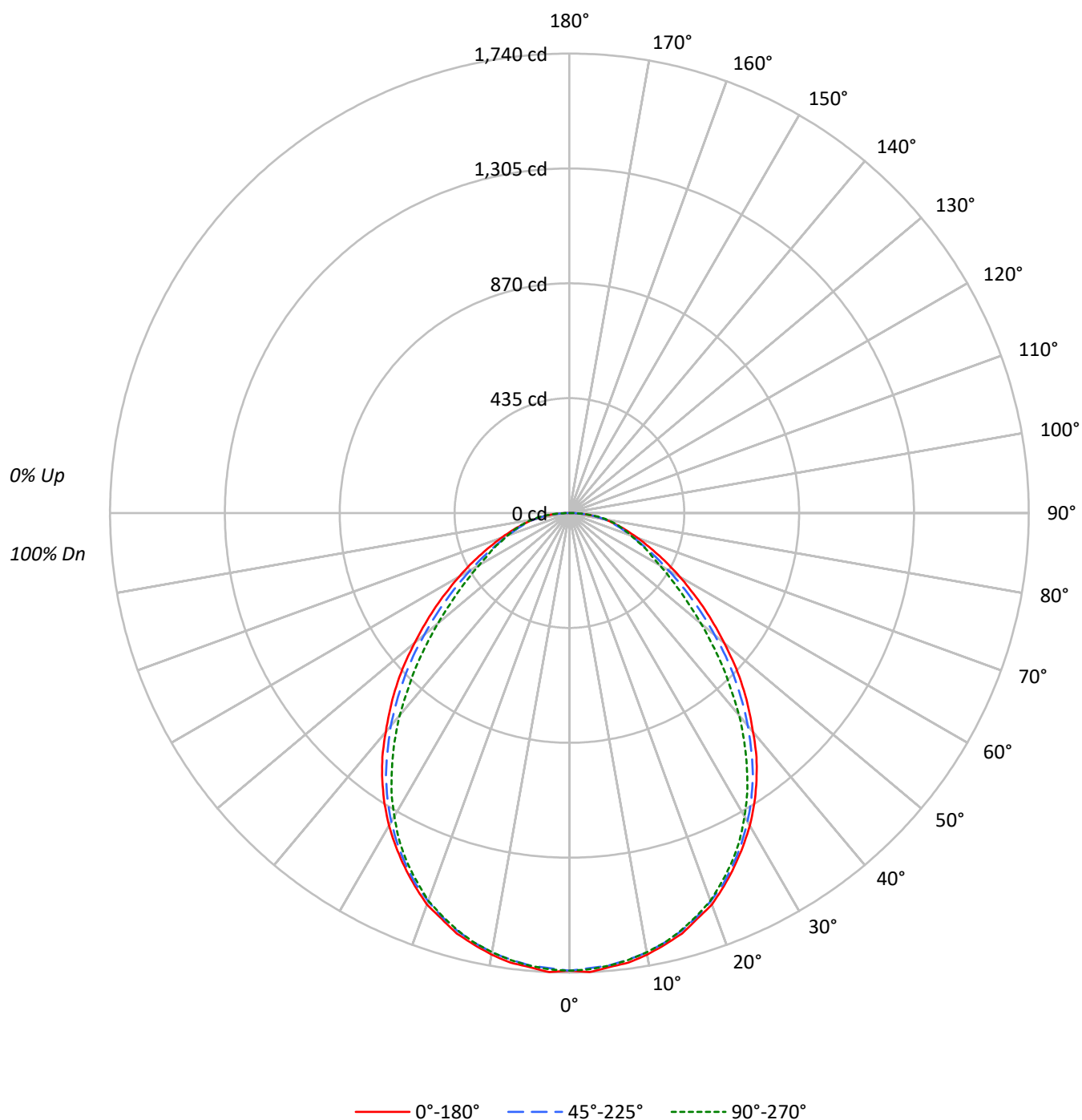
Input Watts (W): 37.014
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73		
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48		
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4663	4663	4663
5°	4662	4645	4647
10°	4638	4617	4614
15°	4591	4564	4557
20°	4517	4479	4474
25°	4387	4358	4327
30°	4245	4193	4122
35°	4059	3981	3850
40°	3801	3695	3512
45°	3529	3371	3126
50°	3202	3002	2721
55°	2896	2652	2378
60°	2600	2324	2120
65°	2334	2075	2030
70°	2154	1932	1953
75°	2057	1938	2047
80°	2080	2067	2232
85°	2155	2127	2371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.6	4.2
10°-20°	462.5	12.0
20°-30°	675.4	17.5
30°-40°	752.6	19.5
40°-50°	678.1	17.6
50°-60°	506.8	13.2
60°-70°	334.3	8.7
70°-80°	204.1	5.3
80°-90°	75.7	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°	1301.4	33.8
0°-40°	2053.9	53.3
0°-60°	3238.8	84.1
0°-90°	3853.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3853.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1733	1733	1733	1733	1733	
5°	1726	1724	1720	1728	1720	164
15°	1648	1642	1638	1648	1636	464
25°	1478	1472	1468	1470	1457	680
35°	1236	1225	1212	1190	1172	770
45°	927	918	886	845	821	714
55°	617	608	565	518	507	553
65°	366	355	326	313	319	367
75°	198	194	186	192	197	211
85°	70	67	69	76	77	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1732.8	1732.8	1732.8	1732.8	1732.8
2.5°	1739.9	1731.9	1724.8	1735.4	1729.3
5°	1725.7	1724.0	1719.5	1728.4	1720.4
7.5°	1716.9	1710.7	1705.4	1716.0	1707.2
10°	1697.5	1693.9	1689.5	1698.3	1688.6
12.5°	1673.6	1670.1	1665.7	1676.3	1665.7
15°	1648.0	1641.8	1638.3	1648.0	1635.6
17.5°	1610.9	1608.3	1603.0	1612.7	1600.3
20°	1577.4	1567.6	1564.1	1571.2	1562.3
22.5°	1528.8	1521.7	1520.8	1525.2	1510.2
25°	1477.6	1472.3	1467.8	1470.5	1457.2
27.5°	1423.7	1416.6	1411.3	1410.4	1396.3
30°	1366.3	1357.4	1349.5	1342.4	1326.5
32.5°	1303.6	1293.0	1282.4	1270.9	1254.1
35°	1235.6	1225.0	1211.7	1190.5	1172.0
37.5°	1164.0	1151.7	1130.5	1105.7	1087.2
40°	1081.9	1075.7	1051.9	1020.1	999.8
42.5°	1005.1	998.0	968.0	932.6	905.3
45°	927.3	917.6	885.8	845.2	821.4
47.5°	847.8	838.1	802.8	752.5	731.3
50°	764.8	759.5	717.1	671.2	650.0
52.5°	688.9	682.7	639.4	593.5	574.1
55°	617.3	607.6	565.2	518.4	506.9
57.5°	545.8	535.2	495.5	455.7	447.8
60°	483.1	469.8	431.9	401.0	393.9
62.5°	423.9	408.9	377.1	353.3	349.7
65°	366.5	355.0	325.9	312.6	318.8
67.5°	317.1	305.6	284.4	279.1	277.3
70°	273.8	263.2	245.5	247.3	248.2
72.5°	234.0	227.9	214.6	219.0	222.6
75°	197.8	194.3	186.4	192.5	196.9
77.5°	165.2	162.5	159.0	164.3	171.3
80°	134.2	132.5	133.4	136.9	144.0
82.5°	103.3	99.8	102.4	109.5	113.9
85°	69.8	67.1	68.9	76.0	76.8
87.5°	32.7	32.7	31.8	37.1	37.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)