

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: P290700

Luminaire Tested: **14GR-LD5-24-F1-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290700
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-LD5-24-F1-UNV-L92765-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1966.0 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

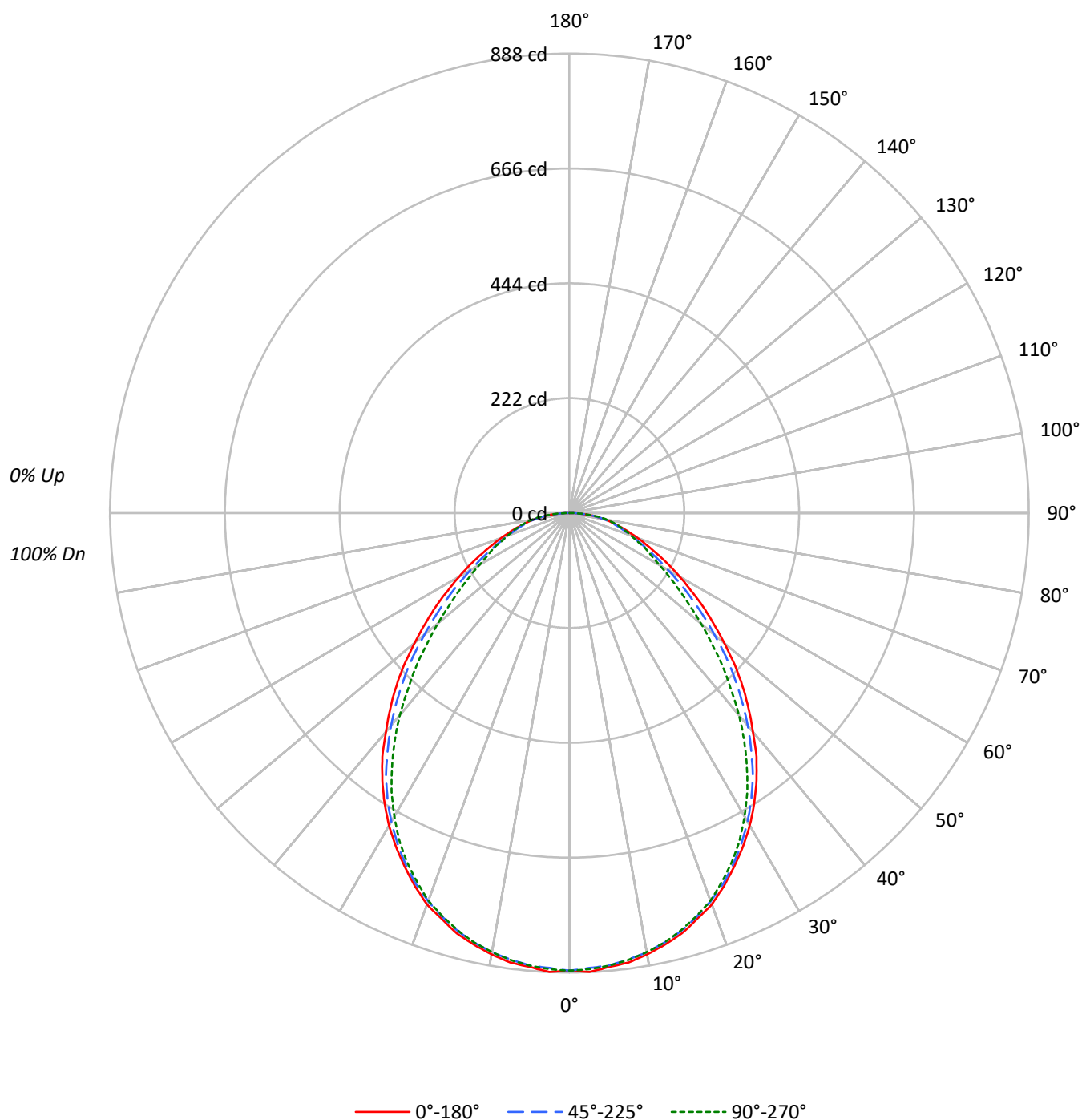
Input Watts (W): 18.042
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2379	2379	2379
5°	2379	2370	2371
10°	2367	2356	2354
15°	2343	2329	2325
20°	2305	2286	2283
25°	2238	2224	2208
30°	2166	2140	2103
35°	2071	2031	1964
40°	1939	1885	1792
45°	1801	1720	1595
50°	1634	1532	1389
55°	1478	1353	1214
60°	1327	1186	1082
65°	1191	1059	1036
70°	1099	986	996
75°	1049	989	1045
80°	1062	1054	1139
85°	1099	1087	1210



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	4.2
10°-20°	236.0	12.0
20°-30°	344.6	17.5
30°-40°	384.0	19.5
40°-50°	346.0	17.6
50°-60°	258.6	13.2
60°-70°	170.6	8.7
70°-80°	104.1	5.3
80°-90°	38.6	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°	664.0	33.8
0°-40°	1048.0	53.3
0°-60°	1652.6	84.1
0°-90°	1966.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1966.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	884	884	884	884	884	
5°	881	880	877	882	878	84
15°	841	838	836	841	835	237
25°	754	751	749	750	744	347
35°	630	625	618	608	598	393
45°	473	468	452	431	419	364
55°	315	310	288	264	259	282
65°	187	181	166	160	163	187
75°	101	99	95	98	100	108
85°	36	34	35	39	39	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	884.2	884.2	884.2	884.2	884.2
2.5°	887.8	883.7	880.1	885.5	882.4
5°	880.6	879.7	877.4	881.9	877.9
7.5°	876.0	872.9	870.2	875.6	871.1
10°	866.1	864.3	862.1	866.6	861.6
12.5°	854.0	852.2	849.9	855.3	849.9
15°	840.9	837.7	835.9	840.9	834.6
17.5°	822.0	820.6	817.9	822.9	816.6
20°	804.8	799.9	798.1	801.7	797.2
22.5°	780.1	776.5	776.0	778.3	770.6
25°	753.9	751.2	749.0	750.3	743.6
27.5°	726.4	722.8	720.1	719.7	712.5
30°	697.1	692.6	688.6	685.0	676.9
32.5°	665.1	659.7	654.3	648.5	639.9
35°	630.4	625.0	618.3	607.5	598.0
37.5°	593.9	587.6	576.8	564.2	554.7
40°	552.0	548.9	536.7	520.5	510.1
42.5°	512.8	509.2	493.9	475.9	461.9
45°	473.2	468.2	452.0	431.3	419.1
47.5°	432.6	427.7	409.6	383.9	373.1
50°	390.3	387.6	365.9	342.5	331.7
52.5°	351.5	348.3	326.3	302.8	292.9
55°	315.0	310.0	288.4	264.5	258.7
57.5°	278.5	273.1	252.8	232.5	228.5
60°	246.5	239.7	220.4	204.6	201.0
62.5°	216.3	208.6	192.4	180.3	178.5
65°	187.0	181.2	166.3	159.5	162.7
67.5°	161.8	155.9	145.1	142.4	141.5
70°	139.7	134.3	125.3	126.2	126.6
72.5°	119.4	116.3	109.5	111.8	113.6
75°	100.9	99.1	95.1	98.2	100.5
77.5°	84.3	82.9	81.1	83.8	87.4
80°	68.5	67.6	68.0	69.8	73.5
82.5°	52.7	50.9	52.3	55.9	58.1
85°	35.6	34.2	35.2	38.8	39.2
87.5°	16.7	16.7	16.2	18.9	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)