

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: P290601

Luminaire Tested: **14GR-LD5-24-F1-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290601
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-L82765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2214.0 lumens
Efficiency: N/A
Efficacy: 121.5 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

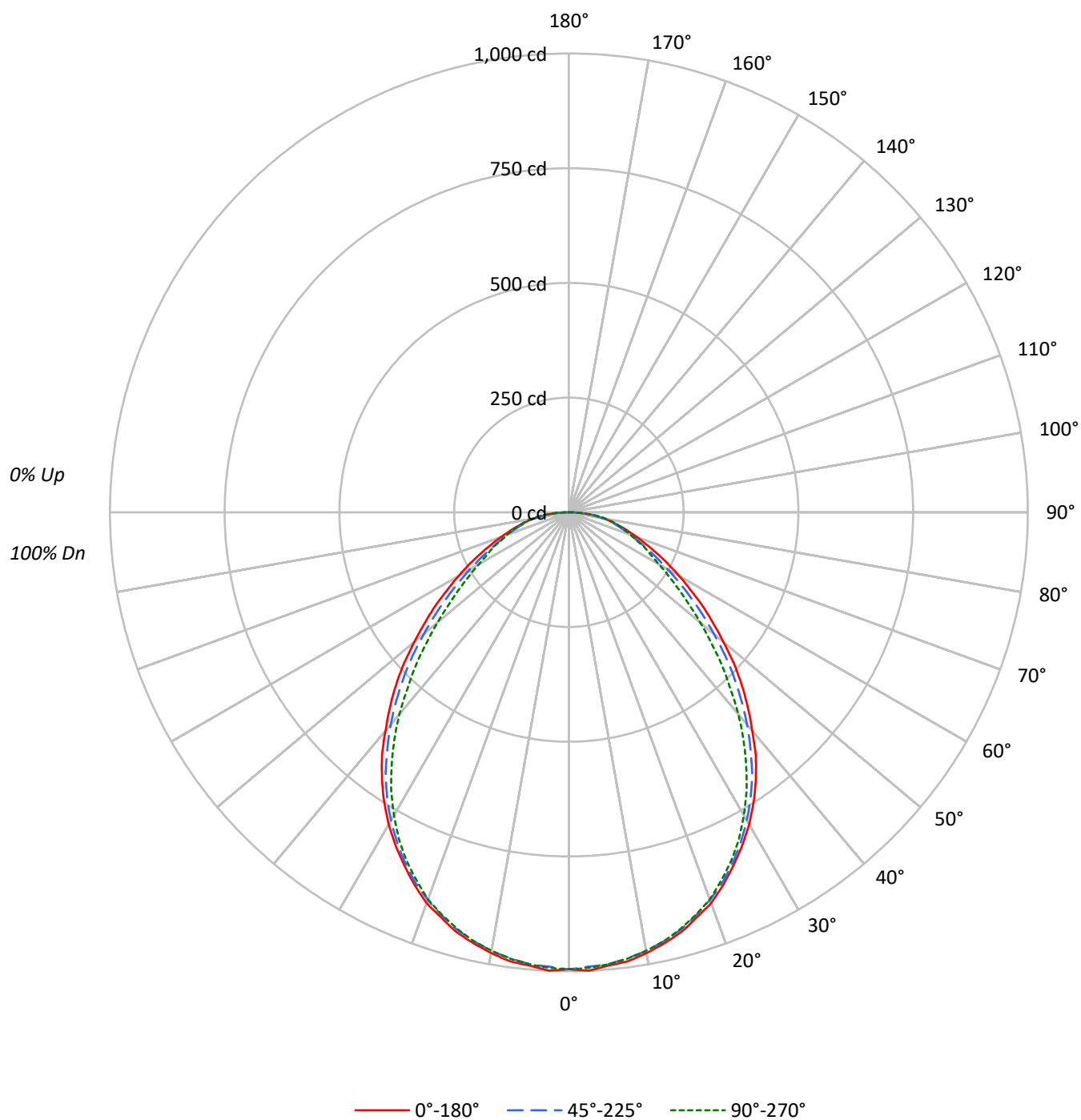
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
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°	2679	2679	2679
5°	2679	2669	2670
10°	2665	2653	2651
15°	2638	2623	2618
20°	2596	2574	2571
25°	2521	2504	2486
30°	2440	2409	2368
35°	2332	2287	2212
40°	2184	2123	2018
45°	2028	1937	1796
50°	1840	1725	1564
55°	1664	1524	1367
60°	1494	1336	1218
65°	1341	1193	1167
70°	1238	1110	1122
75°	1182	1114	1177
80°	1195	1187	1282
85°	1238	1223	1365



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.0	4.2
10°-20°	265.7	12.0
20°-30°	388.1	17.5
30°-40°	432.4	19.5
40°-50°	389.6	17.6
50°-60°	291.2	13.2
60°-70°	192.1	8.7
70°-80°	117.3	5.3
80°-90°	43.5	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°	747.8	33.8
0°-40°	1180.2	53.3
0°-60°	1861.1	84.1
0°-90°	2214.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2214.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	992	991	988	993	989	94
15°	947	943	941	947	940	267
25°	849	846	843	845	837	391
35°	710	704	696	684	673	443
45°	533	527	509	486	472	410
55°	355	349	325	298	291	318
65°	211	204	187	180	183	211
75°	114	112	107	111	113	121
85°	40	39	40	44	44	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	995.7	995.7	995.7	995.7	995.7
2.5°	999.8	995.2	991.1	997.2	993.7
5°	991.6	990.6	988.1	993.2	988.6
7.5°	986.6	983.0	980.0	986.0	981.0
10°	975.4	973.4	970.8	975.9	970.3
12.5°	961.7	959.7	957.1	963.2	957.1
15°	947.0	943.4	941.4	947.0	939.9
17.5°	925.7	924.1	921.1	926.7	919.6
20°	906.4	900.8	898.8	902.8	897.7
22.5°	878.5	874.4	873.9	876.4	867.8
25°	849.0	846.0	843.4	845.0	837.4
27.5°	818.1	814.0	811.0	810.5	802.3
30°	785.1	780.0	775.4	771.4	762.2
32.5°	749.1	743.0	736.9	730.3	720.6
35°	710.0	703.9	696.3	684.1	673.4
37.5°	668.9	661.8	649.6	635.4	624.7
40°	621.7	618.1	604.4	586.1	574.5
42.5°	577.5	573.5	556.2	535.9	520.2
45°	532.9	527.3	509.0	485.7	472.0
47.5°	487.2	481.6	461.3	432.4	420.2
50°	439.5	436.4	412.1	385.7	373.5
52.5°	395.8	392.3	367.4	341.0	329.9
55°	354.7	349.2	324.8	297.9	291.3
57.5°	313.6	307.5	284.7	261.9	257.3
60°	277.6	270.0	248.2	230.4	226.3
62.5°	243.6	235.0	216.7	203.0	201.0
65°	210.6	204.0	187.3	179.7	183.2
67.5°	182.2	175.6	163.4	160.4	159.4
70°	157.3	151.2	141.1	142.1	142.6
72.5°	134.5	130.9	123.3	125.9	127.9
75°	113.7	111.6	107.1	110.6	113.2
77.5°	94.9	93.4	91.3	94.4	98.5
80°	77.1	76.1	76.6	78.7	82.7
82.5°	59.4	57.3	58.9	62.9	65.5
85°	40.1	38.6	39.6	43.6	44.2
87.5°	18.8	18.8	18.3	21.3	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)