

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: P290702

Luminaire Tested: **14GR-LD5-24-F1-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290702
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-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: 2131.0 lumens
Efficiency: N/A
Efficacy: 115.7 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

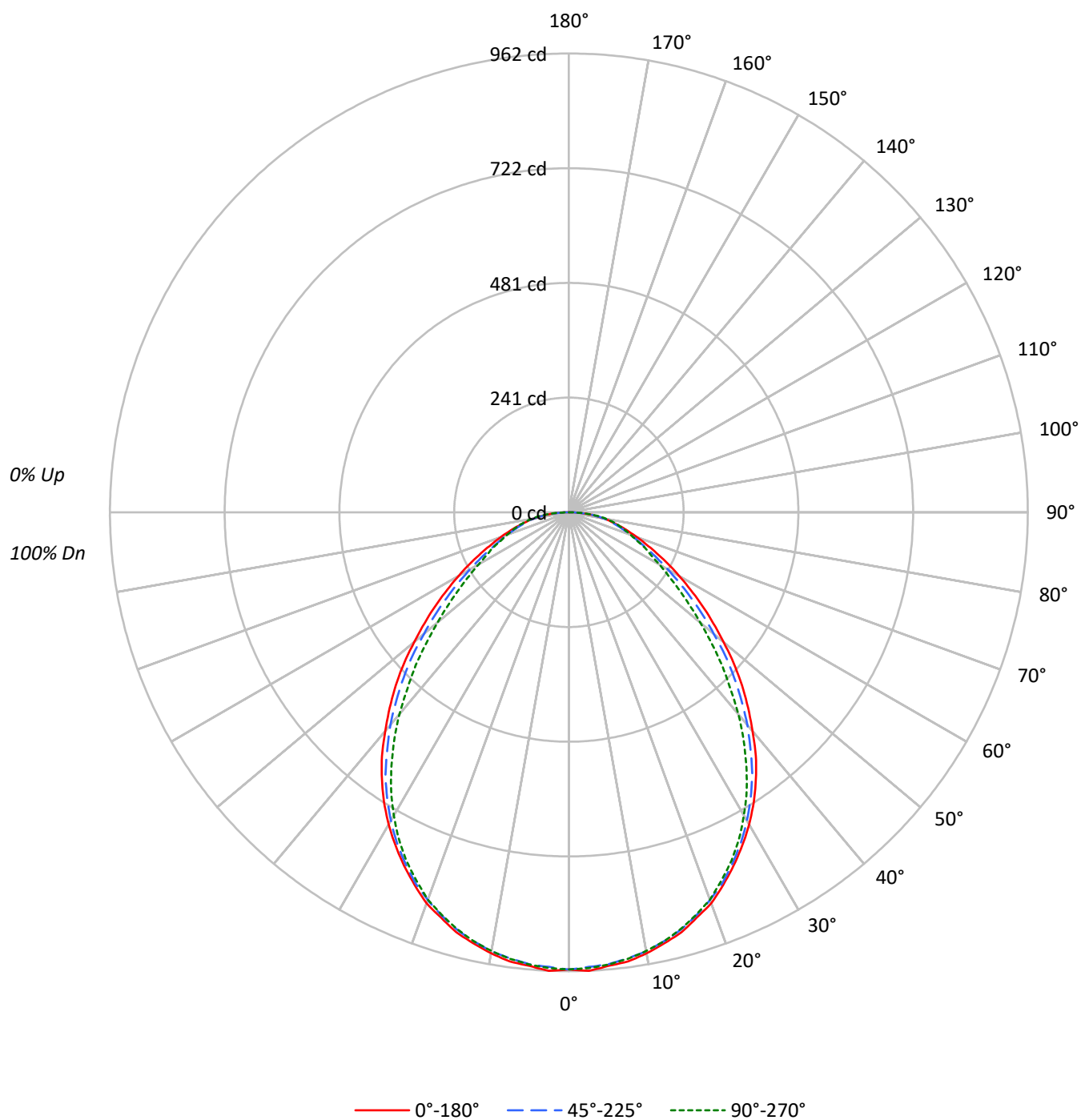
Input Watts (W): 18.414
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2579	2579	2579
5°	2578	2569	2570
10°	2565	2553	2552
15°	2539	2524	2520
20°	2498	2477	2475
25°	2426	2410	2393
30°	2348	2319	2280
35°	2245	2202	2129
40°	2102	2044	1942
45°	1952	1864	1729
50°	1771	1660	1505
55°	1602	1467	1316
60°	1438	1286	1173
65°	1291	1147	1123
70°	1191	1068	1080
75°	1137	1072	1132
80°	1150	1144	1234
85°	1192	1176	1312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	4.2
10°-20°	255.8	12.0
20°-30°	373.5	17.5
30°-40°	416.2	19.5
40°-50°	375.0	17.6
50°-60°	280.3	13.2
60°-70°	184.9	8.7
70°-80°	112.9	5.3
80°-90°	41.9	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°	719.8	33.8
0°-40°	1136.0	53.3
0°-60°	1791.3	84.1
0°-90°	2131.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2131.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	954	954	951	956	952	91
15°	912	908	906	912	905	257
25°	817	814	812	813	806	376
35°	683	678	670	658	648	426
45°	513	508	490	468	454	395
55°	341	336	313	287	280	306
65°	203	196	180	173	176	203
75°	109	108	103	106	109	117
85°	39	37	38	42	42	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	958.4	958.4	958.4	958.4	958.4
2.5°	962.3	957.9	954.0	959.8	956.4
5°	954.5	953.5	951.0	955.9	951.5
7.5°	949.6	946.2	943.2	949.1	944.2
10°	938.8	936.9	934.4	939.3	933.9
12.5°	925.6	923.7	921.2	927.1	921.2
15°	911.5	908.1	906.1	911.5	904.6
17.5°	891.0	889.5	886.6	891.9	885.1
20°	872.4	867.0	865.1	869.0	864.1
22.5°	845.5	841.6	841.1	843.6	835.3
25°	817.2	814.3	811.8	813.3	806.0
27.5°	787.4	783.5	780.6	780.1	772.3
30°	755.7	750.8	746.4	742.5	733.7
32.5°	721.0	715.1	709.2	702.9	693.6
35°	683.4	677.5	670.2	658.4	648.2
37.5°	643.8	637.0	625.2	611.6	601.3
40°	598.4	594.9	581.8	564.2	552.9
42.5°	555.9	552.0	535.4	515.8	500.7
45°	512.9	507.5	489.9	467.5	454.3
47.5°	468.9	463.6	444.0	416.2	404.4
50°	423.0	420.1	396.6	371.2	359.5
52.5°	381.0	377.6	353.6	328.2	317.5
55°	341.4	336.1	312.6	286.7	280.4
57.5°	301.9	296.0	274.0	252.0	247.7
60°	267.2	259.9	238.9	221.8	217.9
62.5°	234.5	226.2	208.6	195.4	193.4
65°	202.7	196.4	180.2	172.9	176.3
67.5°	175.4	169.0	157.3	154.4	153.4
70°	151.4	145.6	135.8	136.8	137.3
72.5°	129.4	126.0	118.7	121.1	123.1
75°	109.4	107.5	103.1	106.5	108.9
77.5°	91.3	89.9	87.9	90.9	94.8
80°	74.2	73.3	73.8	75.7	79.6
82.5°	57.2	55.2	56.7	60.6	63.0
85°	38.6	37.1	38.1	42.0	42.5
87.5°	18.1	18.1	17.6	20.5	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)