

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: P290597

Luminaire Tested: **14GR-LD5-20-F1-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290597
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-LD5-20-F1-UNV-L82765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2122.0 lumens
Efficiency: N/A
Efficacy: 133.4 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

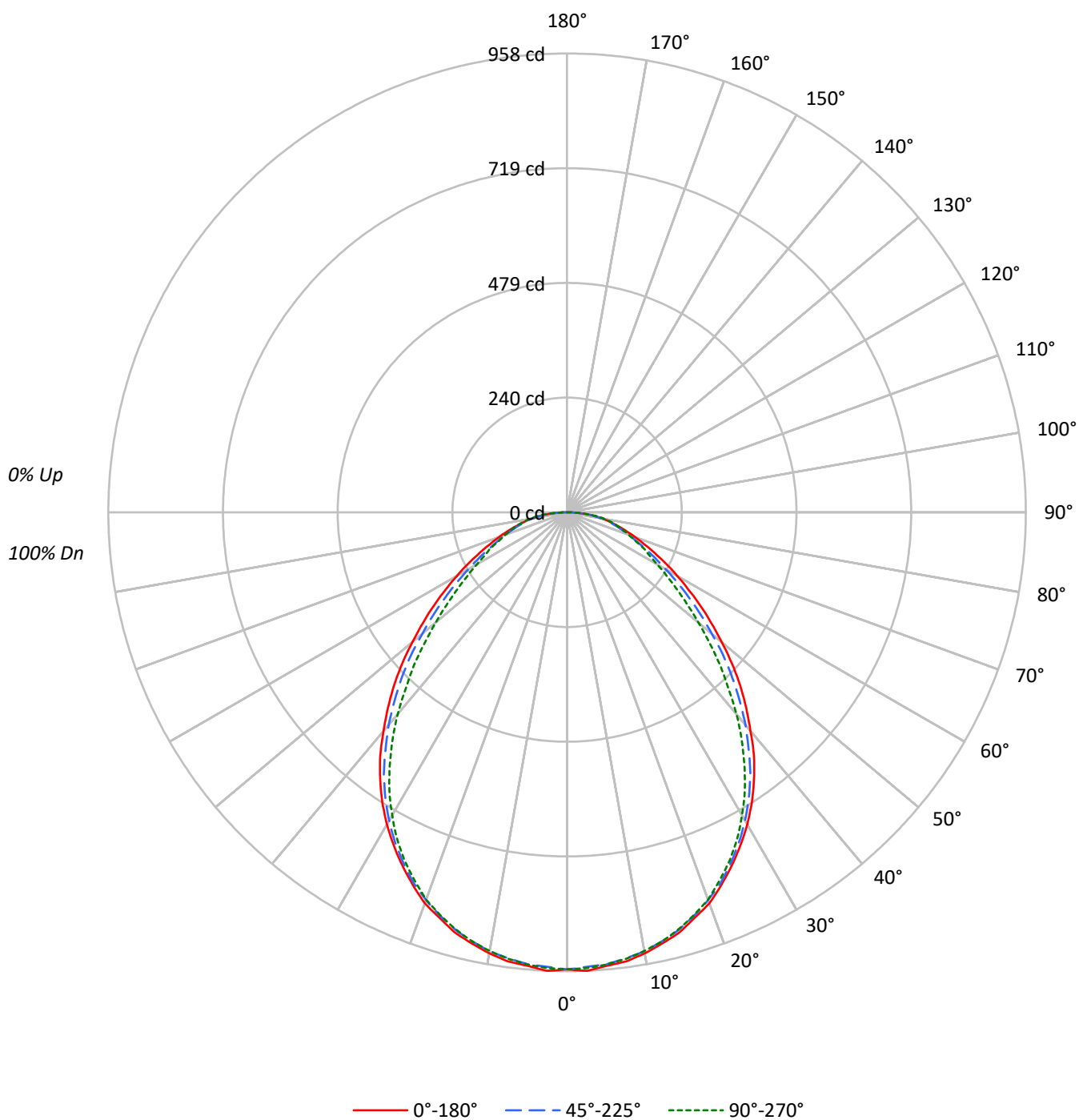
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2568	2568	2568
5°	2567	2558	2559
10°	2555	2543	2541
15°	2528	2514	2510
20°	2488	2467	2464
25°	2416	2400	2383
30°	2338	2309	2270
35°	2235	2192	2121
40°	2093	2035	1934
45°	1944	1857	1722
50°	1763	1654	1499
55°	1595	1460	1310
60°	1432	1280	1167
65°	1286	1143	1118
70°	1186	1064	1076
75°	1133	1067	1128
80°	1145	1137	1229
85°	1186	1170	1306



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.1	4.2
10°-20°	254.7	12.0
20°-30°	371.9	17.5
30°-40°	414.5	19.5
40°-50°	373.4	17.6
50°-60°	279.1	13.2
60°-70°	184.1	8.7
70°-80°	112.4	5.3
80°-90°	41.7	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°	716.7	33.8
0°-40°	1131.2	53.3
0°-60°	1783.8	84.1
0°-90°	2122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2122.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	954	954	954	954	954	
5°	950	950	947	952	948	90
15°	908	904	902	908	901	255
25°	814	811	808	810	803	375
35°	680	675	667	656	646	424
45°	511	505	488	466	452	393
55°	340	335	311	286	279	305
65°	202	196	180	172	176	202
75°	109	107	103	106	108	116
85°	38	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°	954.3	954.3	954.3	954.3	954.3
2.5°	958.2	953.8	949.9	955.8	952.4
5°	950.4	949.5	947.0	951.9	947.5
7.5°	945.6	942.2	939.2	945.1	940.2
10°	934.9	932.9	930.5	935.3	930.0
12.5°	921.7	919.8	917.4	923.2	917.4
15°	907.6	904.2	902.3	907.6	900.8
17.5°	887.2	885.7	882.8	888.2	881.4
20°	868.7	863.4	861.4	865.3	860.4
22.5°	842.0	838.1	837.6	840.0	831.7
25°	813.7	810.8	808.4	809.9	802.6
27.5°	784.1	780.2	777.3	776.8	769.0
30°	752.5	747.6	743.2	739.3	730.6
32.5°	717.9	712.1	706.3	699.9	690.7
35°	680.5	674.6	667.3	655.7	645.5
37.5°	641.1	634.3	622.6	609.0	598.8
40°	595.8	592.4	579.3	561.8	550.6
42.5°	553.5	549.6	533.1	513.6	498.6
45°	510.7	505.4	487.9	465.5	452.4
47.5°	466.9	461.6	442.1	414.4	402.7
50°	421.2	418.3	395.0	369.7	358.0
52.5°	379.4	376.0	352.2	326.9	316.2
55°	340.0	334.6	311.3	285.5	279.2
57.5°	300.6	294.8	272.9	251.0	246.6
60°	266.1	258.8	237.8	220.8	216.9
62.5°	233.5	225.2	207.7	194.6	192.6
65°	201.9	195.5	179.5	172.2	175.6
67.5°	174.6	168.3	156.6	153.7	152.7
70°	150.8	144.9	135.2	136.2	136.7
72.5°	128.9	125.5	118.2	120.6	122.6
75°	109.0	107.0	102.6	106.0	108.5
77.5°	91.0	89.5	87.6	90.5	94.4
80°	73.9	73.0	73.4	75.4	79.3
82.5°	56.9	55.0	56.4	60.3	62.7
85°	38.4	37.0	37.9	41.8	42.3
87.5°	18.0	18.0	17.5	20.4	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)