

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: P290593

Luminaire Tested: **14GR-LD5-20-F1-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290593
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-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1946.0 lumens
Efficiency: N/A
Efficacy: 126.1 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

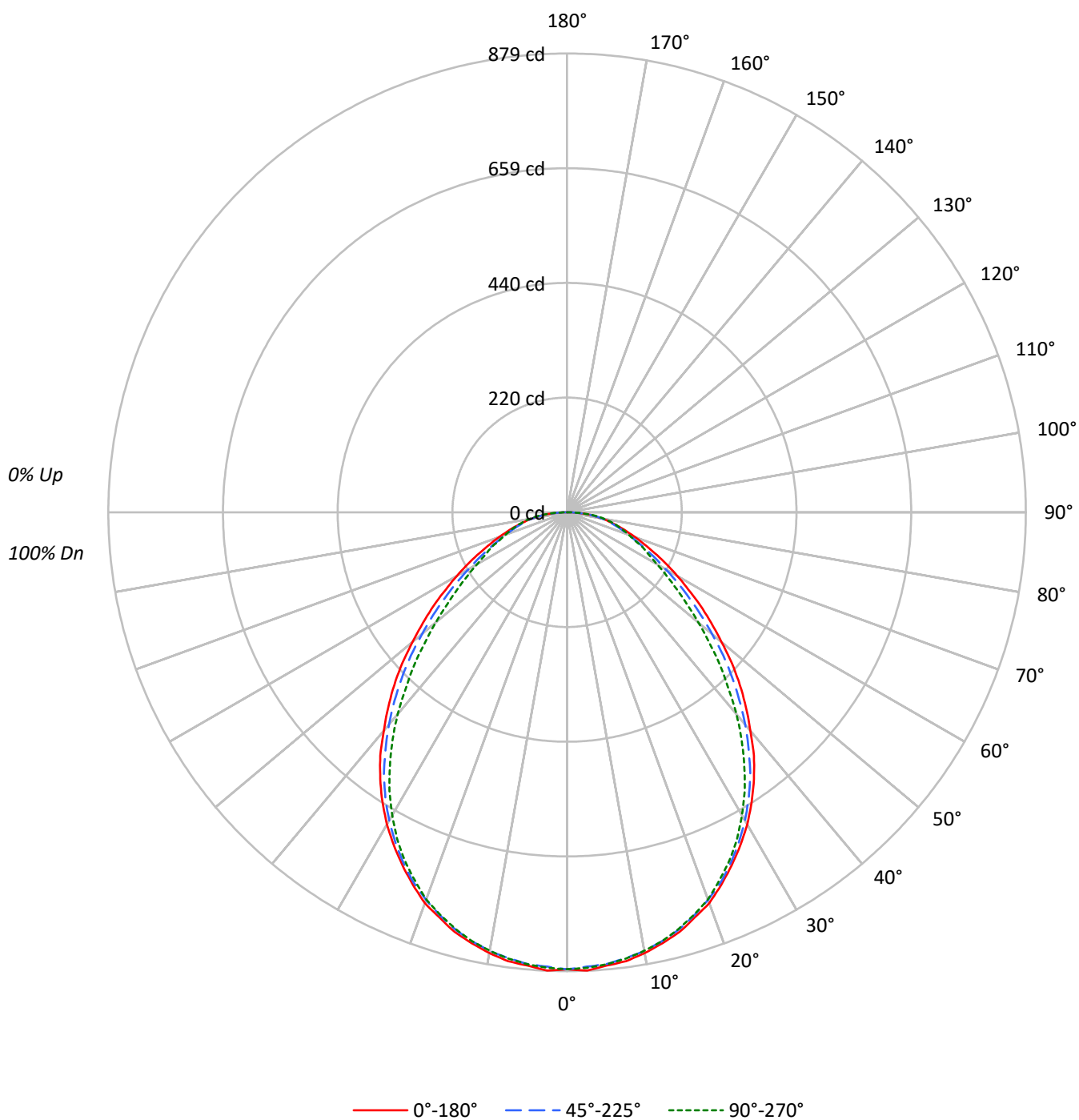
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2355	2355	2355
5°	2354	2346	2347
10°	2343	2332	2331
15°	2319	2305	2301
20°	2281	2262	2260
25°	2216	2201	2185
30°	2144	2118	2082
35°	2050	2010	1944
40°	1919	1866	1774
45°	1783	1703	1579
50°	1617	1516	1374
55°	1463	1339	1201
60°	1313	1174	1070
65°	1179	1048	1025
70°	1088	976	986
75°	1039	978	1035
80°	1051	1044	1127
85°	1087	1074	1198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.6	4.2
10°-20°	233.6	12.0
20°-30°	341.1	17.5
30°-40°	380.1	19.5
40°-50°	342.5	17.6
50°-60°	256.0	13.2
60°-70°	168.9	8.7
70°-80°	103.1	5.3
80°-90°	38.2	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°	657.3	33.8
0°-40°	1037.4	53.3
0°-60°	1635.8	84.1
0°-90°	1946.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1946.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	875	875	875	875	875	
5°	872	871	868	873	869	83
15°	832	829	827	832	826	234
25°	746	744	741	743	736	343
35°	624	619	612	601	592	389
45°	468	464	447	427	415	360
55°	312	307	286	262	256	279
65°	185	179	165	158	161	186
75°	100	98	94	97	100	107
85°	35	34	35	38	39	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	875.2	875.2	875.2	875.2	875.2
2.5°	878.7	874.7	871.2	876.5	873.4
5°	871.6	870.7	868.5	872.9	868.9
7.5°	867.1	864.0	861.3	866.7	862.2
10°	857.3	855.5	853.3	857.8	852.9
12.5°	845.3	843.5	841.3	846.6	841.3
15°	832.3	829.2	827.4	832.3	826.1
17.5°	813.6	812.3	809.6	814.5	808.3
20°	796.7	791.8	790.0	793.5	789.1
22.5°	772.1	768.6	768.1	770.3	762.8
25°	746.3	743.6	741.3	742.7	736.0
27.5°	719.0	715.5	712.8	712.4	705.2
30°	690.1	685.6	681.6	678.0	670.0
32.5°	658.4	653.0	647.7	641.9	633.4
35°	624.0	618.7	612.0	601.3	591.9
37.5°	587.9	581.7	571.0	558.5	549.1
40°	546.4	543.3	531.3	515.2	504.9
42.5°	507.6	504.0	488.9	471.0	457.2
45°	468.4	463.5	447.4	426.9	414.8
47.5°	428.2	423.3	405.5	380.0	369.3
50°	386.3	383.6	362.2	339.0	328.3
52.5°	347.9	344.8	322.9	299.8	289.9
55°	311.8	306.9	285.5	261.8	256.0
57.5°	275.7	270.3	250.2	230.2	226.2
60°	244.0	237.3	218.1	202.5	198.9
62.5°	214.1	206.5	190.5	178.4	176.6
65°	185.1	179.3	164.6	157.9	161.0
67.5°	160.1	154.3	143.6	141.0	140.1
70°	138.3	132.9	124.0	124.9	125.3
72.5°	118.2	115.1	108.4	110.6	112.4
75°	99.9	98.1	94.1	97.2	99.5
77.5°	83.4	82.1	80.3	83.0	86.5
80°	67.8	66.9	67.4	69.1	72.7
82.5°	52.2	50.4	51.7	55.3	57.5
85°	35.2	33.9	34.8	38.4	38.8
87.5°	16.5	16.5	16.1	18.7	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)