

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: P290594

Luminaire Tested: **14GR-LD5-20-F1-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290594
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-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2013.0 lumens
Efficiency: N/A
Efficacy: 128.8 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

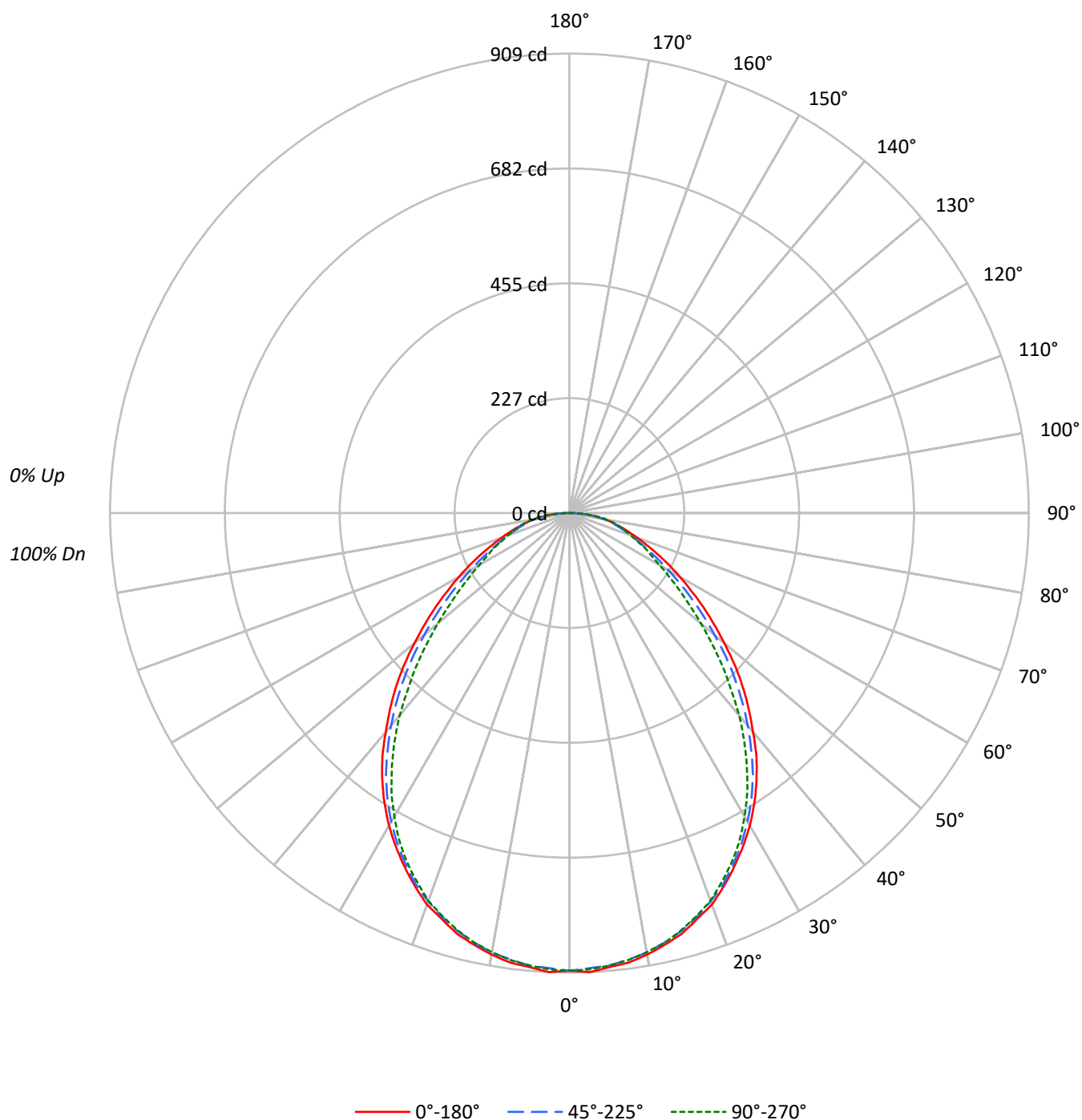
Input Watts (W): 15.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2436	2436	2436
5°	2435	2427	2428
10°	2423	2412	2411
15°	2399	2384	2381
20°	2360	2340	2337
25°	2292	2277	2260
30°	2218	2191	2153
35°	2121	2080	2011
40°	1985	1930	1835
45°	1844	1761	1633
50°	1673	1569	1422
55°	1513	1385	1243
60°	1358	1214	1108
65°	1219	1084	1061
70°	1125	1009	1020
75°	1075	1013	1070
80°	1086	1080	1165
85°	1127	1112	1238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	4.2
10°-20°	241.6	12.0
20°-30°	352.8	17.5
30°-40°	393.2	19.5
40°-50°	354.3	17.6
50°-60°	264.8	13.2
60°-70°	174.7	8.7
70°-80°	106.6	5.3
80°-90°	39.6	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°	679.9	33.8
0°-40°	1073.1	53.3
0°-60°	1692.1	84.1
0°-90°	2013.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2013.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	905	905	905	905	905	
5°	902	901	898	903	899	86
15°	861	858	856	861	854	242
25°	772	769	767	768	761	355
35°	646	640	633	622	612	402
45°	484	479	463	442	429	373
55°	322	318	295	271	265	289
65°	192	186	170	163	167	192
75°	103	102	97	101	103	110
85°	36	35	36	40	40	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	905.3	905.3	905.3	905.3	905.3
2.5°	909.0	904.8	901.1	906.7	903.5
5°	901.6	900.7	898.4	903.0	898.8
7.5°	897.0	893.8	891.0	896.5	891.9
10°	886.8	885.0	882.7	887.3	882.2
12.5°	874.4	872.5	870.2	875.8	870.2
15°	861.0	857.8	855.9	861.0	854.5
17.5°	841.6	840.2	837.5	842.5	836.1
20°	824.1	819.0	817.2	820.9	816.2
22.5°	798.7	795.0	794.6	796.9	789.0
25°	771.9	769.2	766.9	768.3	761.3
27.5°	743.8	740.1	737.3	736.9	729.5
30°	713.8	709.2	705.0	701.4	693.0
32.5°	681.0	675.5	670.0	664.0	655.2
35°	645.5	640.0	633.1	622.0	612.3
37.5°	608.1	601.7	590.6	577.7	568.0
40°	565.2	562.0	549.5	532.9	522.3
42.5°	525.1	521.4	505.7	487.3	473.0
45°	484.5	479.4	462.8	441.6	429.1
47.5°	443.0	437.9	419.4	393.1	382.1
50°	399.6	396.8	374.7	350.7	339.6
52.5°	359.9	356.7	334.1	310.1	299.9
55°	322.5	317.5	295.3	270.9	264.9
57.5°	285.2	279.6	258.9	238.1	233.9
60°	252.4	245.5	225.6	209.5	205.8
62.5°	221.5	213.6	197.0	184.6	182.7
65°	191.5	185.5	170.3	163.3	166.6
67.5°	165.6	159.6	148.6	145.8	144.9
70°	143.0	137.5	128.3	129.2	129.7
72.5°	122.3	119.0	112.1	114.4	116.3
75°	103.4	101.5	97.4	100.6	102.9
77.5°	86.3	84.9	83.1	85.8	89.5
80°	70.1	69.2	69.7	71.5	75.2
82.5°	54.0	52.1	53.5	57.2	59.5
85°	36.5	35.1	36.0	39.7	40.1
87.5°	17.1	17.1	16.6	19.4	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)