

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: P290694

Luminaire Tested: **14GR-LD5-20-F1-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290694
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-L92765-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1867.0 lumens
Efficiency: N/A
Efficacy: 118.1 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

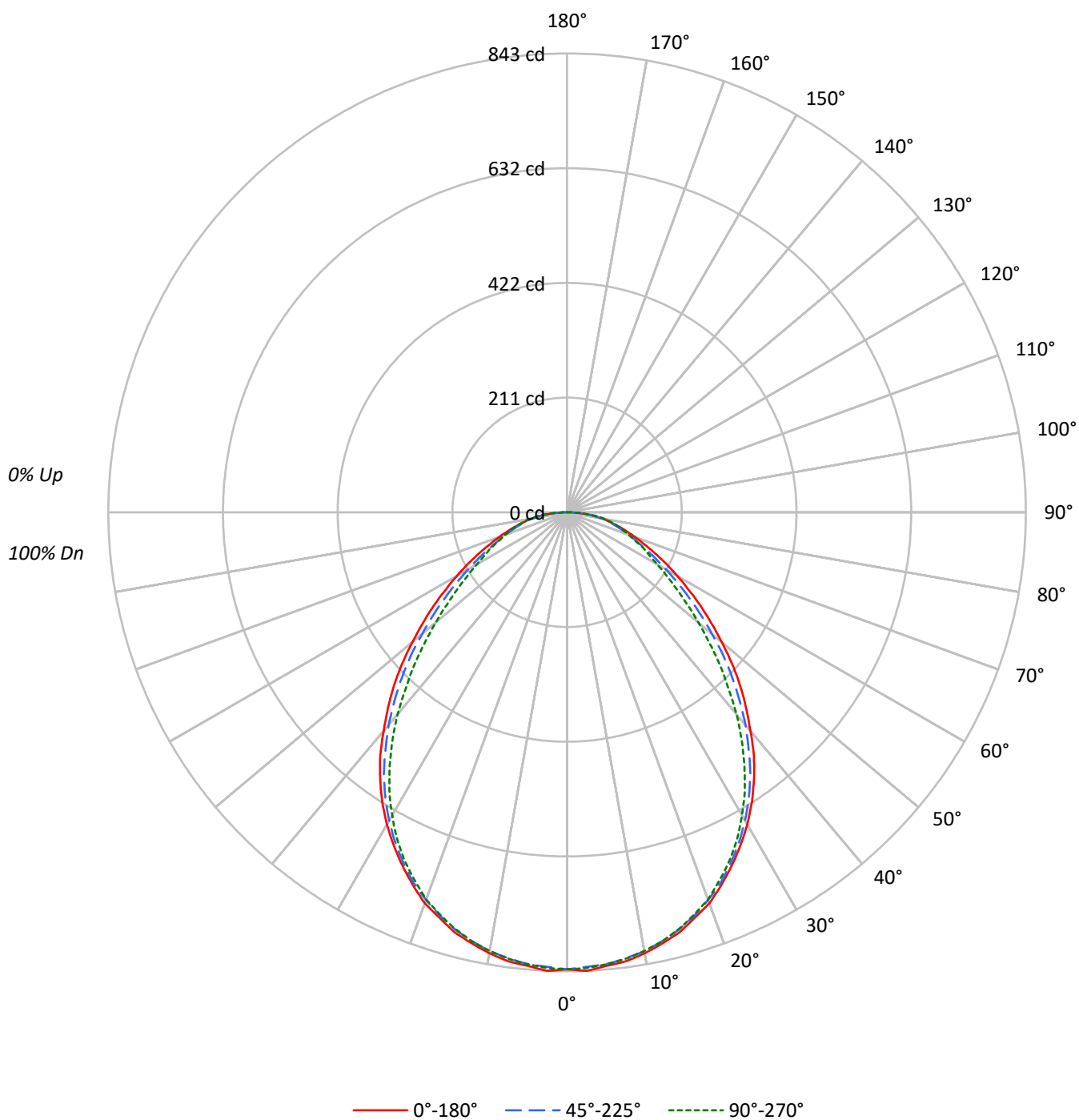
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		85
2	101	93	87	81	98	91	85	80	88	83	78		84	80	77		73
3	92	83	75	69	90	81	74	68	78	72	67		75	70	66		63
4	85	74	66	59	83	73	65	59	70	64	58		68	62	57		55
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		48
6	73	61	52	46	71	60	52	46	58	51	45		56	50	45		43
7	68	55	47	41	66	54	47	41	53	46	41		52	45	40		38
8	64	51	43	37	62	50	42	37	49	42	37		47	41	36		34
9	60	47	39	34	58	46	39	33	45	38	33		44	38	33		31
10	56	43	36	31	55	43	35	31	42	35	30		41	35	30		29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2259	2259	2259
5°	2259	2251	2252
10°	2247	2237	2236
15°	2225	2211	2208
20°	2189	2170	2168
25°	2126	2112	2097
30°	2057	2032	1997
35°	1967	1929	1866
40°	1841	1790	1702
45°	1710	1633	1515
50°	1551	1455	1319
55°	1403	1285	1152
60°	1260	1126	1027
65°	1131	1005	984
70°	1044	936	947
75°	997	939	992
80°	1007	1001	1082
85°	1044	1031	1149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.3	4.2
10°-20°	224.1	12.0
20°-30°	327.3	17.5
30°-40°	364.7	19.5
40°-50°	328.5	17.6
50°-60°	245.6	13.2
60°-70°	162.0	8.7
70°-80°	98.9	5.3
80°-90°	36.7	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°	630.6	33.8
0°-40°	995.2	53.3
0°-60°	1569.4	84.1
0°-90°	1867.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1867.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	840	840	840	840	840	
5°	836	835	833	838	834	79
15°	799	796	794	799	793	225
25°	716	713	711	712	706	330
35°	599	594	587	577	568	373
45°	449	445	429	410	398	346
55°	299	294	274	251	246	268
65°	178	172	158	152	154	178
75°	96	94	90	93	95	102
85°	34	32	33	37	37	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	839.6	839.6	839.6	839.6	839.6
2.5°	843.1	839.2	835.8	840.9	837.9
5°	836.2	835.4	833.2	837.5	833.6
7.5°	831.9	828.9	826.4	831.5	827.2
10°	822.5	820.8	818.7	822.9	818.2
12.5°	811.0	809.3	807.1	812.2	807.1
15°	798.6	795.6	793.8	798.6	792.6
17.5°	780.6	779.3	776.7	781.4	775.4
20°	764.3	759.6	757.9	761.3	757.0
22.5°	740.8	737.4	736.9	739.1	731.8
25°	716.0	713.4	711.3	712.5	706.1
27.5°	689.9	686.4	683.9	683.4	676.6
30°	662.0	657.8	653.9	650.5	642.8
32.5°	631.7	626.5	621.4	615.8	607.7
35°	598.7	593.6	587.1	576.9	567.9
37.5°	564.0	558.0	547.8	535.8	526.8
40°	524.2	521.2	509.7	494.3	484.4
42.5°	487.0	483.6	469.0	451.9	438.6
45°	449.3	444.6	429.2	409.5	398.0
47.5°	410.8	406.1	389.0	364.6	354.3
50°	370.6	368.0	347.5	325.2	315.0
52.5°	333.8	330.8	309.8	287.6	278.2
55°	299.1	294.4	273.9	251.2	245.6
57.5°	264.5	259.3	240.1	220.8	217.0
60°	234.1	227.7	209.3	194.3	190.9
62.5°	205.4	198.1	182.7	171.2	169.5
65°	177.6	172.0	157.9	151.5	154.5
67.5°	153.6	148.1	137.8	135.2	134.4
70°	132.7	127.5	119.0	119.8	120.3
72.5°	113.4	110.4	104.0	106.1	107.8
75°	95.9	94.1	90.3	93.3	95.4
77.5°	80.0	78.7	77.0	79.6	83.0
80°	65.0	64.2	64.6	66.3	69.8
82.5°	50.1	48.4	49.6	53.1	55.2
85°	33.8	32.5	33.4	36.8	37.2
87.5°	15.8	15.8	15.4	18.0	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)