

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: P290696

Luminaire Tested: **14GR-LD5-20-F1-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290696
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-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1935.0 lumens
Efficiency: N/A
Efficacy: 121.0 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

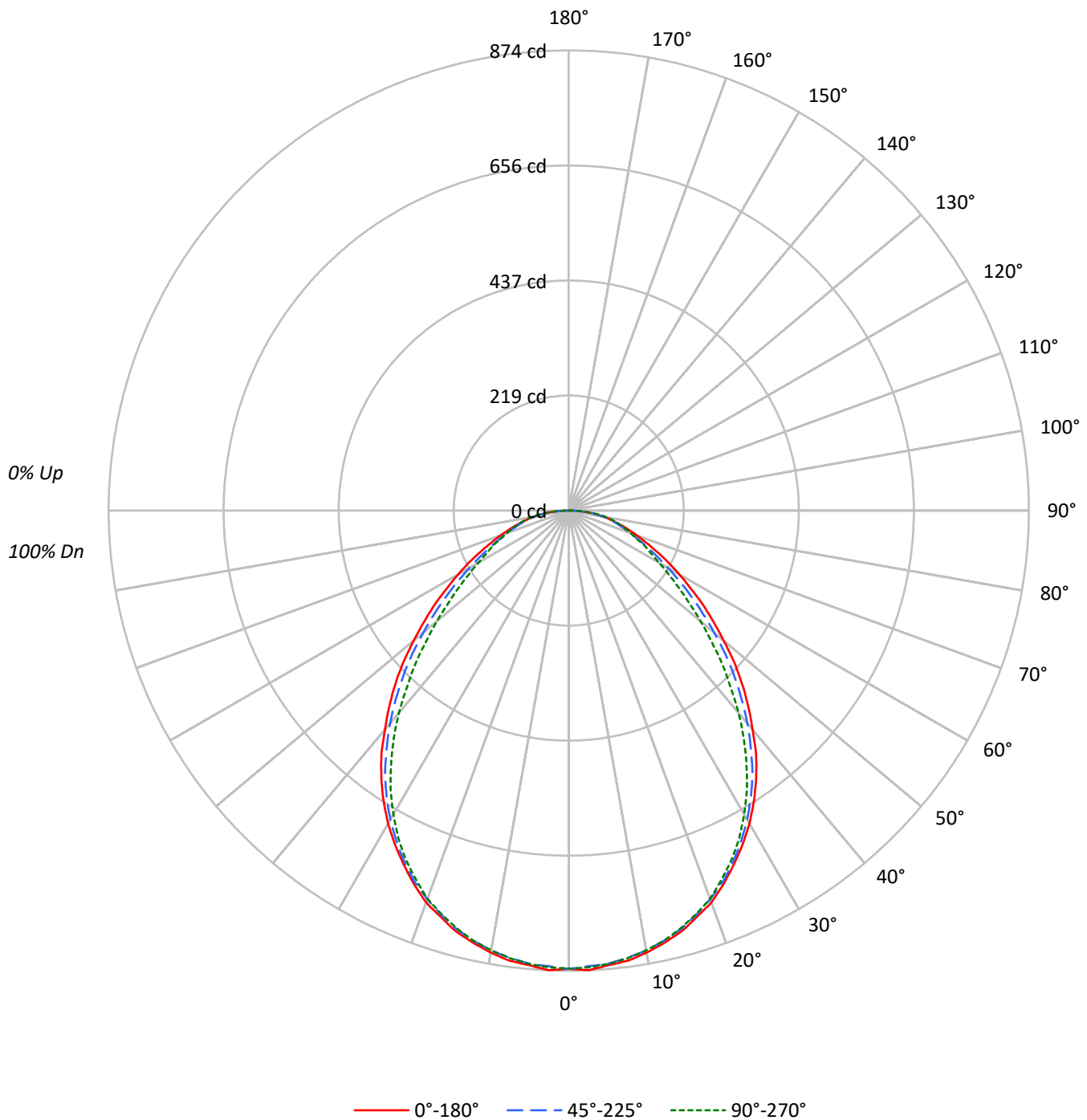
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2342	2342	2342
5°	2341	2333	2334
10°	2329	2319	2317
15°	2306	2292	2288
20°	2269	2249	2247
25°	2203	2189	2173
30°	2132	2106	2070
35°	2038	1999	1934
40°	1909	1856	1764
45°	1772	1693	1570
50°	1608	1508	1366
55°	1454	1332	1194
60°	1306	1167	1065
65°	1172	1042	1019
70°	1082	970	980
75°	1033	973	1028
80°	1044	1038	1120
85°	1081	1068	1192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.2	4.2
10°-20°	232.2	12.0
20°-30°	339.2	17.5
30°-40°	377.9	19.5
40°-50°	340.5	17.6
50°-60°	254.6	13.2
60°-70°	167.9	8.7
70°-80°	102.5	5.3
80°-90°	38.0	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°	653.6	33.8
0°-40°	1031.5	53.3
0°-60°	1626.6	84.1
0°-90°	1935.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1935.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	870	870	870	870	870	
5°	867	866	864	868	864	82
15°	828	824	823	828	821	233
25°	742	739	737	738	732	342
35°	620	615	608	598	589	387
45°	466	461	445	424	412	358
55°	310	305	284	260	255	278
65°	184	178	164	157	160	185
75°	99	98	94	97	99	106
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°	870.2	870.2	870.2	870.2	870.2
2.5°	873.8	869.8	866.2	871.5	868.4
5°	866.7	865.8	863.6	868.0	864.0
7.5°	862.2	859.1	856.5	861.8	857.4
10°	852.5	850.7	848.5	852.9	848.0
12.5°	840.5	838.7	836.5	841.8	836.5
15°	827.6	824.5	822.8	827.6	821.4
17.5°	809.0	807.7	805.0	809.9	803.7
20°	792.2	787.3	785.5	789.1	784.6
22.5°	767.8	764.2	763.8	766.0	758.4
25°	742.0	739.4	737.2	738.5	731.8
27.5°	715.0	711.4	708.8	708.3	701.2
30°	686.2	681.7	677.7	674.2	666.2
32.5°	654.7	649.3	644.0	638.2	629.8
35°	620.5	615.2	608.5	597.9	588.6
37.5°	584.6	578.4	567.7	555.3	546.0
40°	543.3	540.2	528.3	512.3	502.1
42.5°	504.7	501.2	486.1	468.4	454.6
45°	465.7	460.8	444.9	424.5	412.5
47.5°	425.8	420.9	403.2	377.9	367.2
50°	384.1	381.4	360.2	337.1	326.4
52.5°	346.0	342.9	321.1	298.1	288.3
55°	310.0	305.2	283.9	260.4	254.6
57.5°	274.1	268.8	248.8	228.9	224.9
60°	242.6	236.0	216.9	201.4	197.8
62.5°	212.9	205.4	189.4	177.4	175.6
65°	184.1	178.3	163.7	157.0	160.1
67.5°	159.2	153.5	142.8	140.2	139.3
70°	137.5	132.2	123.3	124.2	124.6
72.5°	117.5	114.4	107.8	110.0	111.8
75°	99.4	97.6	93.6	96.7	98.9
77.5°	82.9	81.6	79.8	82.5	86.0
80°	67.4	66.5	67.0	68.7	72.3
82.5°	51.9	50.1	51.5	55.0	57.2
85°	35.0	33.7	34.6	38.1	38.6
87.5°	16.4	16.4	16.0	18.6	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)