

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: P290986

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290986
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-A-UNV-L82765-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2035.0 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

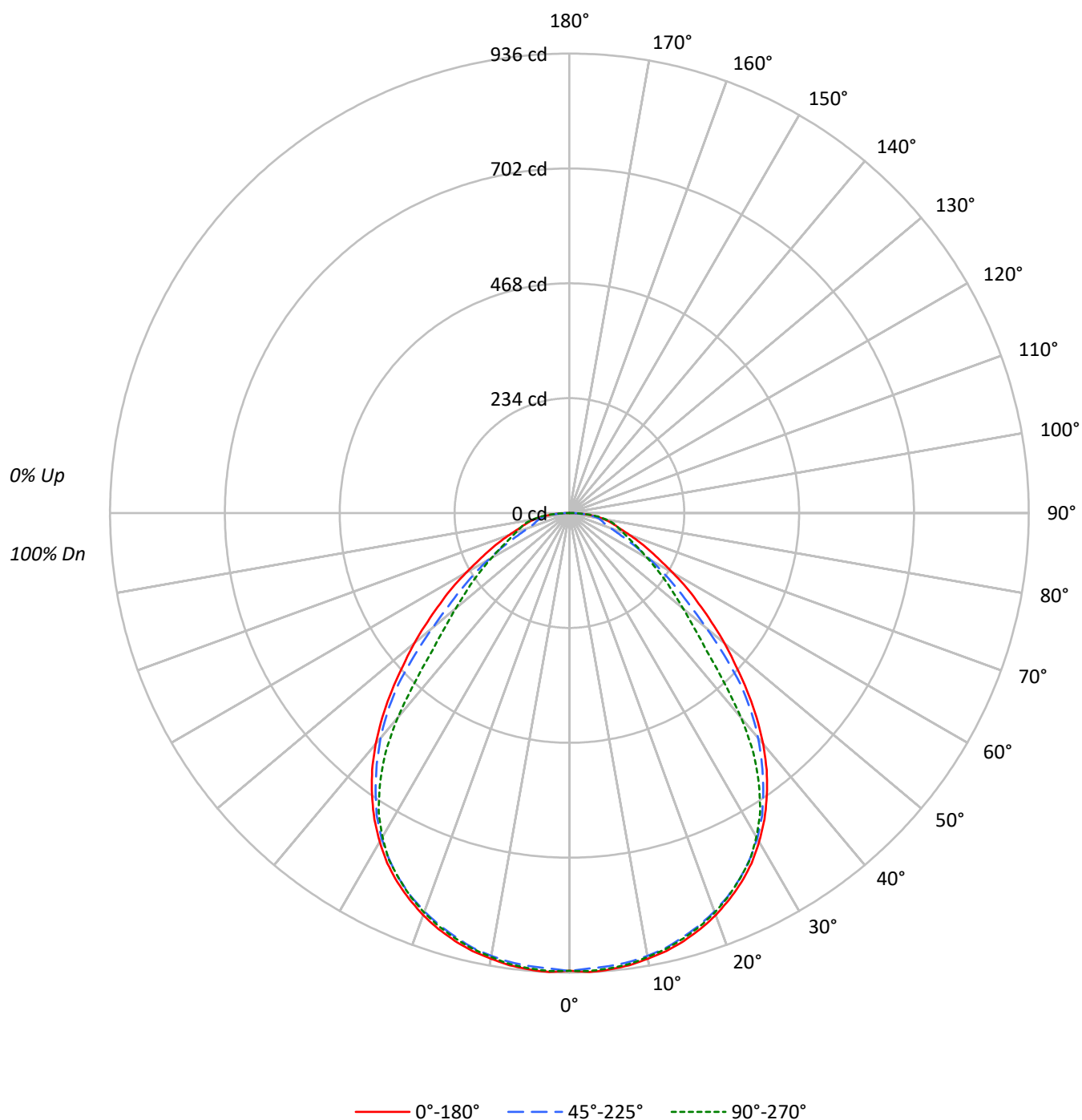
Input Watts (W): 15.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		86
2	101	94	88	83	99	92	86	82	88	84	80		85	81	78		74
3	93	84	76	71	91	82	75	70	79	74	69		77	72	68		64
4	86	75	67	61	84	74	67	61	72	65	60		69	64	59		56
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		50
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		44
7	69	57	48	43	67	56	48	43	54	47	42		53	47	42		40
8	65	52	44	38	63	51	44	38	50	43	38		49	43	38		36
9	61	48	40	35	59	47	40	35	46	39	35		45	39	35		33
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2509	2509	2509
5°	2522	2502	2515
10°	2519	2503	2509
15°	2514	2491	2499
20°	2496	2473	2480
25°	2463	2439	2440
30°	2403	2378	2367
35°	2304	2262	2211
40°	2157	2102	1913
45°	1948	1874	1495
50°	1727	1522	1264
55°	1508	1248	1115
60°	1307	1027	984
65°	1147	825	909
70°	1023	699	915
75°	997	737	1022
80°	1106	930	1172
85°	1152	991	1371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.5	4.3
10°-20°	253.5	12.5
20°-30°	379.2	18.6
30°-40°	428.0	21.0
40°-50°	363.1	17.8
50°-60°	245.7	12.1
60°-70°	146.6	7.2
70°-80°	91.8	4.5
80°-90°	38.6	1.9
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°	721.1	35.4
0°-40°	1149.1	56.5
0°-60°	1757.9	86.4
0°-90°	2035.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2035.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	932	932	932	932	932	
5°	934	931	926	933	931	89
15°	902	900	894	900	897	254
25°	830	827	822	825	822	381
35°	701	697	689	682	673	437
45°	512	514	492	422	393	394
55°	321	306	266	238	238	290
65°	180	149	130	138	143	180
75°	96	86	71	94	98	103
85°	37	35	32	42	44	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	932.5	932.5	932.5	932.5	932.5
2.5°	935.8	933.0	928.7	934.4	933.9
5°	933.5	930.6	926.4	933.0	931.1
7.5°	929.2	926.9	922.6	928.7	926.9
10°	921.7	919.8	916.0	921.2	918.3
12.5°	913.6	912.2	907.5	912.2	909.4
15°	902.3	900.4	894.2	900.4	897.1
17.5°	888.1	885.7	880.5	885.7	882.9
20°	871.6	868.7	863.5	868.7	865.9
22.5°	851.7	849.3	844.6	849.3	845.6
25°	829.5	826.7	821.5	825.2	821.9
27.5°	804.0	800.2	795.5	798.3	796.4
30°	773.2	768.5	765.2	765.2	761.9
32.5°	739.7	736.4	730.7	727.4	723.1
35°	701.4	696.7	688.6	682.5	673.0
37.5°	660.3	654.6	644.7	629.1	616.3
40°	614.0	606.9	598.4	567.6	544.5
42.5°	564.3	562.9	548.3	495.8	463.7
45°	511.9	513.8	492.5	422.1	392.8
47.5°	458.9	465.6	426.8	357.8	342.7
50°	412.6	415.0	363.5	310.5	302.0
52.5°	364.9	361.1	310.1	273.2	267.0
55°	321.4	306.3	266.1	238.2	237.7
57.5°	283.1	255.2	227.3	206.5	208.9
60°	242.9	211.7	190.9	179.6	182.9
62.5°	207.5	177.7	159.3	156.0	161.6
65°	180.1	149.4	129.5	138.0	142.7
67.5°	154.1	128.1	105.4	125.7	127.6
70°	130.0	111.1	88.9	115.8	116.3
72.5°	110.1	98.3	77.0	104.9	106.3
75°	95.9	85.5	70.9	93.6	98.3
77.5°	84.1	73.3	65.7	80.8	88.9
80°	71.4	59.1	60.0	67.6	75.6
82.5°	54.8	45.8	47.7	55.8	61.4
85°	37.3	35.4	32.1	41.6	44.4
87.5°	19.9	18.9	16.5	23.6	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)