

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: P290992

Luminaire Tested: **14GR-LD5-20-A-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290992
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-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2178.0 lumens
Efficiency: N/A
Efficacy: 134.6 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

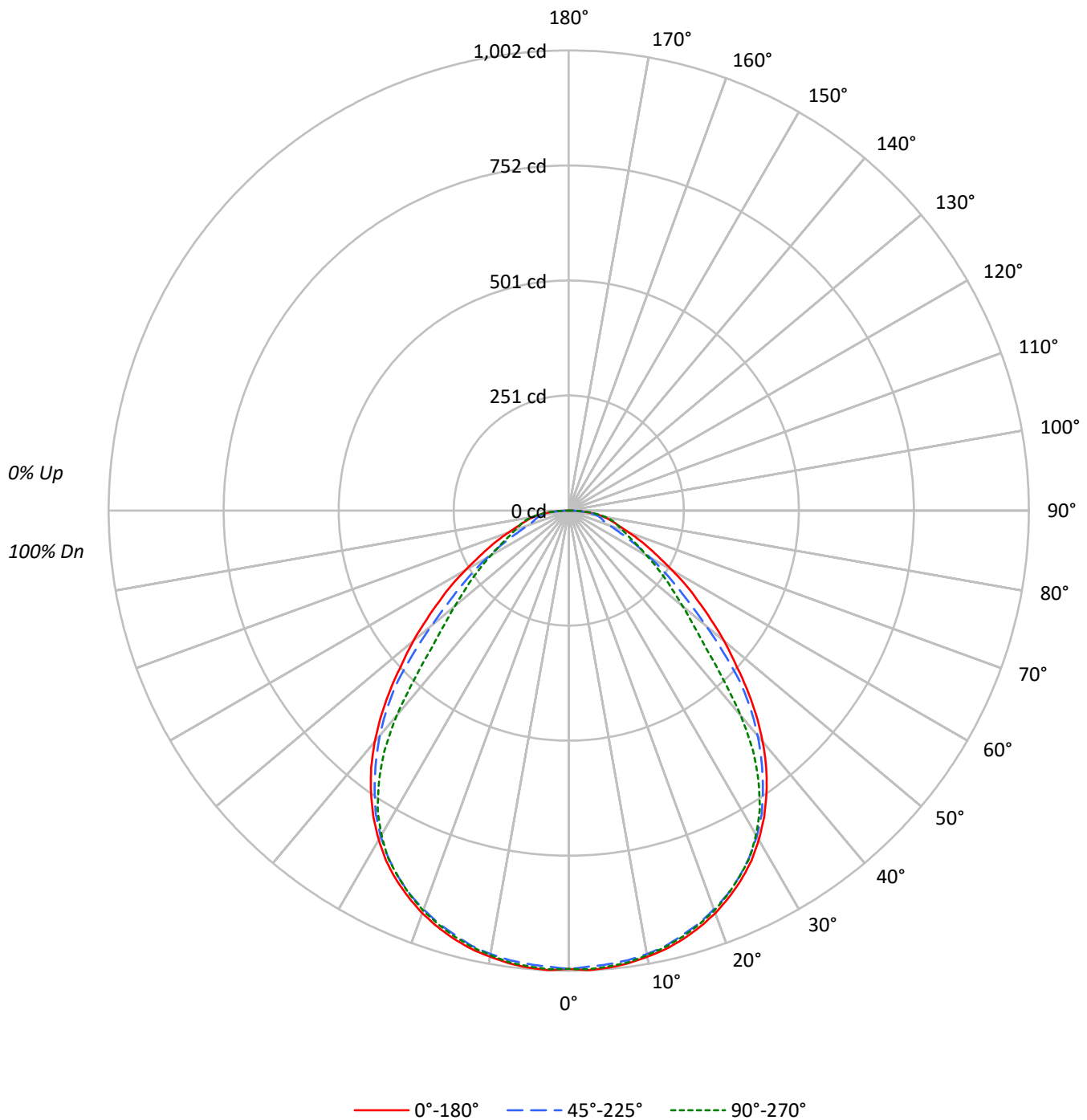
Input Watts (W): 16.182
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10			
RW	70	50	30	10	70	50	30	10	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	102	102	102	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74		
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64		
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56		
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50		
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44		
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40		
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36		
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33		
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2686	2686	2686
5°	2699	2678	2692
10°	2695	2679	2686
15°	2690	2666	2675
20°	2671	2647	2654
25°	2636	2610	2612
30°	2572	2545	2534
35°	2466	2421	2366
40°	2308	2250	2047
45°	2085	2006	1600
50°	1849	1629	1353
55°	1614	1336	1194
60°	1399	1100	1054
65°	1227	883	973
70°	1094	748	979
75°	1068	789	1094
80°	1184	995	1254
85°	1235	1062	1470



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.7	4.3
10°-20°	271.3	12.5
20°-30°	405.8	18.6
30°-40°	458.1	21.0
40°-50°	388.6	17.8
50°-60°	262.9	12.1
60°-70°	157.0	7.2
70°-80°	98.3	4.5
80°-90°	41.3	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°	771.8	35.4
0°-40°	1229.9	56.5
0°-60°	1881.4	86.4
0°-90°	2178.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2178.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	998	998	998	998	998	
5°	999	996	992	999	996	95
15°	966	964	957	964	960	272
25°	888	885	879	883	880	408
35°	751	746	737	730	720	468
45°	548	550	527	452	420	422
55°	344	328	285	255	254	310
65°	193	160	139	148	153	193
75°	103	92	76	100	105	110
85°	40	38	34	44	48	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	998.1	998.1	998.1	998.1	998.1
2.5°	1001.6	998.6	994.0	1000.1	999.6
5°	999.1	996.0	991.5	998.6	996.5
7.5°	994.5	992.0	987.4	994.0	992.0
10°	986.4	984.4	980.4	985.9	982.9
12.5°	977.8	976.3	971.2	976.3	973.3
15°	965.7	963.7	957.1	963.7	960.1
17.5°	950.5	948.0	942.4	948.0	944.9
20°	932.8	929.8	924.2	929.8	926.7
22.5°	911.6	909.0	904.0	909.0	905.0
25°	887.8	884.7	879.2	883.2	879.7
27.5°	860.5	856.4	851.4	854.4	852.4
30°	827.6	822.5	819.0	819.0	815.4
32.5°	791.7	788.1	782.1	778.5	774.0
35°	750.7	745.6	737.0	730.5	720.3
37.5°	706.7	700.6	690.0	673.3	659.6
40°	657.1	649.5	640.4	607.5	582.7
42.5°	604.0	602.5	586.8	530.6	496.2
45°	547.8	549.9	527.1	451.7	420.4
47.5°	491.2	498.3	456.8	382.9	366.7
50°	441.6	444.1	389.0	332.3	323.2
52.5°	390.5	386.5	331.8	292.4	285.8
55°	344.0	327.8	284.8	255.0	254.4
57.5°	303.0	273.2	243.3	221.1	223.6
60°	260.0	226.6	204.4	192.2	195.8
62.5°	222.1	190.2	170.5	166.9	173.0
65°	192.7	159.9	138.6	147.7	152.8
67.5°	164.9	137.1	112.8	134.6	136.6
70°	139.1	118.9	95.1	123.9	124.4
72.5°	117.9	105.2	82.5	112.3	113.8
75°	102.7	91.6	75.9	100.2	105.2
77.5°	90.0	78.4	70.3	86.5	95.1
80°	76.4	63.2	64.2	72.3	80.9
82.5°	58.7	49.1	51.1	59.7	65.8
85°	40.0	37.9	34.4	44.5	47.6
87.5°	21.2	20.2	17.7	25.3	23.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)