

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: P290991

Luminaire Tested: **14GR-LD5-20-A-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290991
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-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2172.0 lumens
Efficiency: N/A
Efficacy: 135.8 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

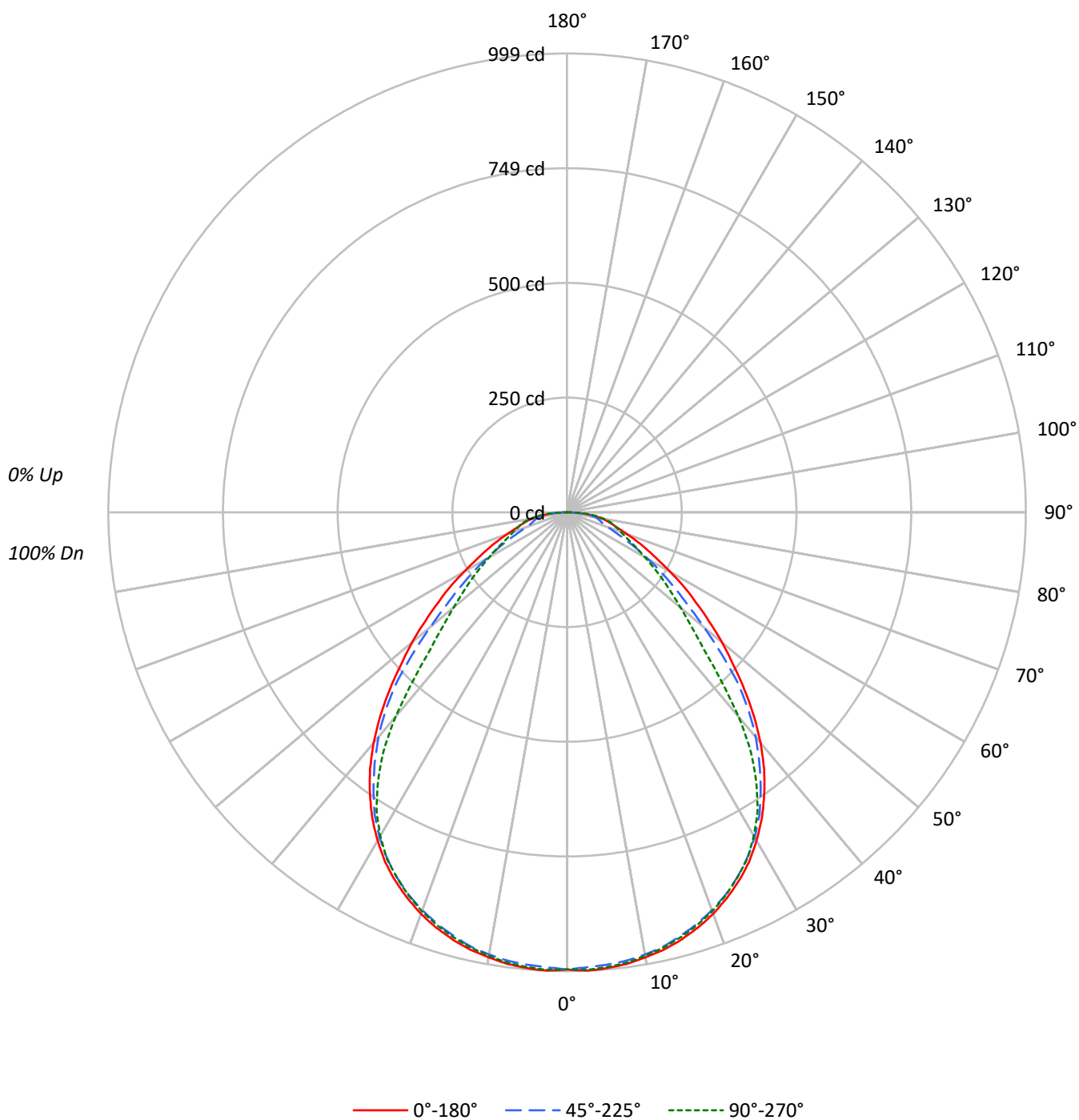
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10				
RW	70	50	30	10	70	50	30	10	50	30	10	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	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°	2678	2678	2678
5°	2691	2671	2685
10°	2688	2672	2678
15°	2683	2659	2668
20°	2664	2639	2647
25°	2629	2603	2605
30°	2564	2538	2527
35°	2459	2415	2360
40°	2302	2244	2041
45°	2079	2001	1595
50°	1844	1624	1350
55°	1609	1332	1190
60°	1396	1097	1051
65°	1224	880	970
70°	1091	746	976
75°	1065	787	1091
80°	1181	993	1251
85°	1232	1059	1463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	4.3
10°-20°	270.5	12.5
20°-30°	404.7	18.6
30°-40°	456.8	21.0
40°-50°	387.5	17.8
50°-60°	262.2	12.1
60°-70°	156.5	7.2
70°-80°	98.0	4.5
80°-90°	41.2	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°	769.6	35.4
0°-40°	1226.5	56.5
0°-60°	1876.2	86.4
0°-90°	2172.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2172.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	995	995	995	995	995	
5°	996	993	989	996	994	95
15°	963	961	954	961	958	272
25°	885	882	877	881	877	407
35°	749	744	735	728	718	466
45°	546	548	526	450	419	421
55°	343	327	284	254	254	309
65°	192	159	138	147	152	192
75°	102	91	76	100	105	110
85°	40	38	34	44	47	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	995.3	995.3	995.3	995.3	995.3
2.5°	998.8	995.8	991.3	997.3	996.8
5°	996.3	993.3	988.7	995.8	993.8
7.5°	991.8	989.3	984.7	991.3	989.3
10°	983.7	981.7	977.7	983.2	980.2
12.5°	975.1	973.6	968.6	973.6	970.6
15°	963.0	961.0	954.4	961.0	957.5
17.5°	947.9	945.4	939.8	945.4	942.3
20°	930.2	927.2	921.7	927.2	924.2
22.5°	909.0	906.5	901.5	906.5	902.5
25°	885.3	882.3	876.8	880.8	877.3
27.5°	858.1	854.1	849.0	852.0	850.0
30°	825.3	820.3	816.7	816.7	813.2
32.5°	789.5	786.0	779.9	776.4	771.8
35°	748.6	743.6	735.0	728.4	718.4
37.5°	704.7	698.7	688.1	671.4	657.8
40°	655.3	647.7	638.7	605.9	581.1
42.5°	602.3	600.8	585.2	529.2	494.9
45°	546.3	548.4	525.7	450.5	419.2
47.5°	489.8	496.9	455.5	381.9	365.7
50°	440.4	442.9	387.9	331.4	322.4
52.5°	389.4	385.4	330.9	291.6	285.0
55°	343.0	326.9	284.0	254.2	253.7
57.5°	302.2	272.4	242.6	220.5	223.0
60°	259.3	226.0	203.8	191.7	195.2
62.5°	221.5	189.7	170.0	166.5	172.5
65°	192.2	159.4	138.2	147.3	152.3
67.5°	164.5	136.7	112.5	134.2	136.2
70°	138.7	118.5	94.8	123.6	124.1
72.5°	117.5	104.9	82.2	112.0	113.5
75°	102.4	91.3	75.7	99.9	104.9
77.5°	89.8	78.2	70.1	86.3	94.8
80°	76.2	63.1	64.1	72.1	80.7
82.5°	58.5	48.9	51.0	59.5	65.6
85°	39.9	37.8	34.3	44.4	47.4
87.5°	21.2	20.2	17.7	25.2	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)