

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: P291377

Luminaire Tested: **14GR-LD5-20-A19/156-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33288)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-A19/156-UNV-L82765-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1892.0 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

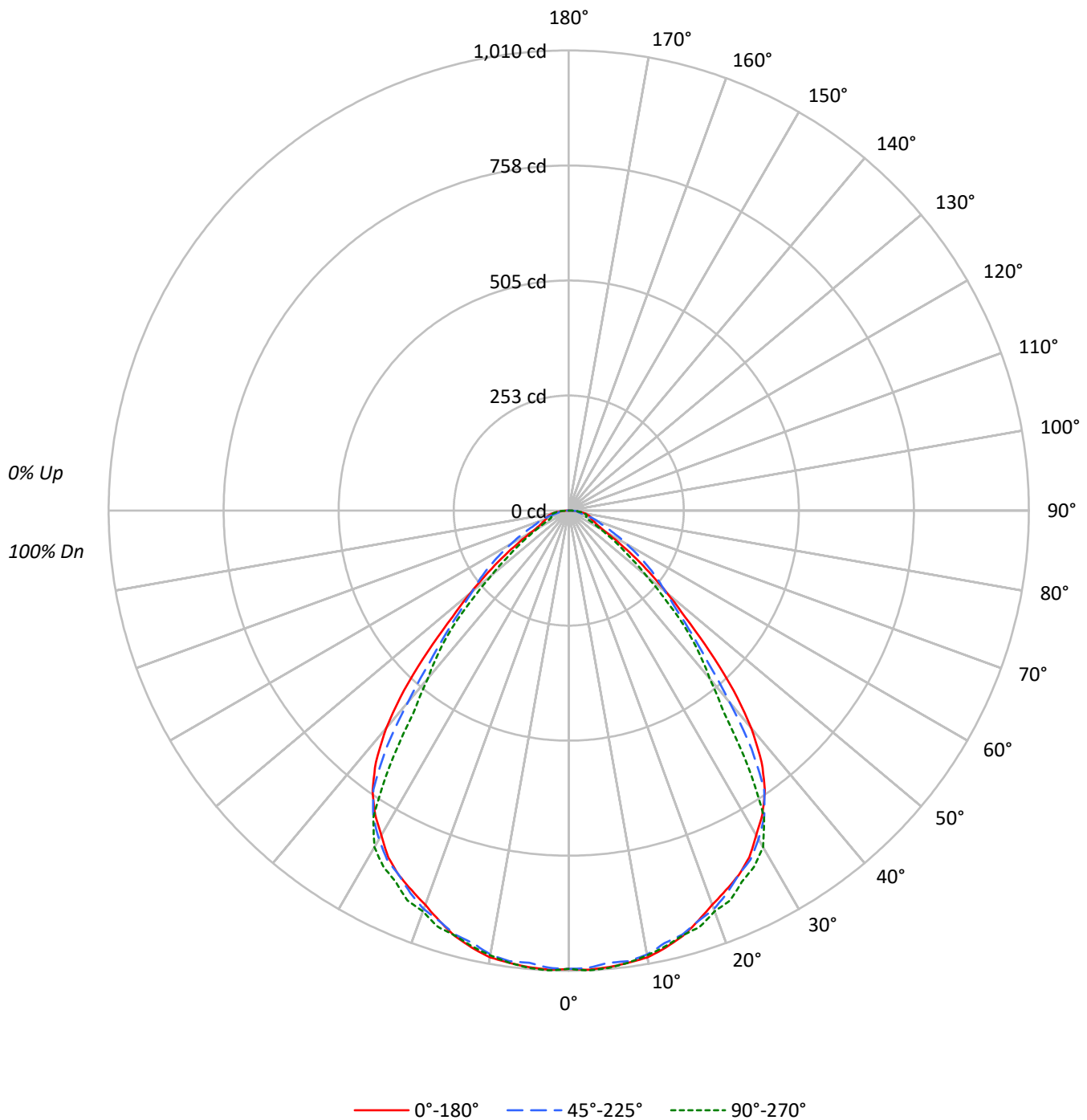
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	104	100	108	105	102	99	101	98	96		97	95	93		93
2	103	96	90	86	100	94	89	85	91	87	83		88	84	81		85
3	95	87	80	74	93	85	79	74	82	77	73		80	75	71		77
4	89	79	71	65	87	77	70	65	75	69	64		73	68	63		71
5	83	71	64	58	81	70	63	58	68	62	57		67	61	57		65
6	77	65	58	52	75	64	57	52	63	56	51		61	55	51		60
7	72	60	52	47	70	59	52	47	58	51	46		56	51	46		55
8	67	55	48	43	66	55	47	42	53	47	42		52	46	42		51
9	63	51	44	39	62	51	44	39	50	43	39		49	43	38		48
10	60	48	40	36	58	47	40	36	46	40	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2707	2707	2707
5°	2717	2691	2722
10°	2721	2704	2709
15°	2693	2683	2690
20°	2637	2665	2680
25°	2621	2619	2670
30°	2557	2588	2651
35°	2466	2456	2257
40°	2189	1932	1692
45°	1662	1445	1368
50°	1178	1157	928
55°	806	988	638
60°	499	788	427
65°	411	607	309
70°	409	528	317
75°	491	378	423
80°	564	349	530
85°	534	614	602



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.5	5.0
10°-20°	272.5	14.4
20°-30°	409.7	21.7
30°-40°	446.7	23.6
40°-50°	312.8	16.5
50°-60°	177.0	9.4
60°-70°	96.9	5.1
70°-80°	58.7	3.1
80°-90°	22.3	1.2
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°	777.7	41.1
0°-40°	1224.3	64.7
0°-60°	1714.1	90.6
0°-90°	1892.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1892.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	1006	1004	996	1008	1008	96
15°	967	964	963	977	965	272
25°	883	884	882	903	899	405
35°	751	747	748	709	687	462
45°	437	456	380	375	360	339
55°	172	206	210	209	136	157
65°	64	106	95	120	48	66
75°	47	68	36	72	41	49
85°	17	28	20	24	20	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1006.1	1006.1	1006.1	1006.1	1006.1
2.5°	1008.7	1007.4	1004.4	1010.4	1010.0
5°	1005.7	1003.9	996.1	1007.8	1007.8
7.5°	1001.3	997.0	997.4	1003.9	1000.9
10°	995.7	988.3	989.6	991.4	991.4
12.5°	982.7	975.8	972.3	977.9	979.7
15°	966.7	964.1	963.2	977.1	965.4
17.5°	944.2	949.8	944.6	955.9	957.6
20°	920.8	931.6	930.7	938.5	935.9
22.5°	901.7	908.6	908.6	918.2	926.0
25°	882.7	884.4	882.2	902.6	899.1
27.5°	858.0	856.7	863.6	874.0	880.9
30°	822.9	823.3	832.9	846.7	853.2
32.5°	790.8	786.9	798.6	804.7	797.8
35°	750.6	747.1	747.5	709.4	686.9
37.5°	695.6	698.6	658.7	589.0	559.6
40°	623.2	629.3	550.0	498.1	481.6
42.5°	535.7	537.5	450.9	434.0	423.1
45°	436.6	455.6	379.8	375.1	359.5
47.5°	346.0	381.6	318.3	321.4	284.1
50°	281.5	317.0	276.3	277.6	221.7
52.5°	222.6	257.3	243.8	239.9	174.1
55°	171.9	205.7	210.5	208.8	136.0
57.5°	126.5	162.8	176.7	183.2	104.8
60°	92.7	133.0	146.4	159.4	79.3
62.5°	73.6	115.2	120.0	139.0	61.5
65°	64.5	106.1	95.3	120.4	48.5
67.5°	57.6	100.9	77.5	106.5	42.4
70°	52.0	91.0	67.1	95.3	40.3
72.5°	52.0	79.7	52.8	84.5	40.7
75°	47.2	68.0	36.4	71.5	40.7
77.5°	42.0	58.0	27.3	58.0	38.1
80°	36.4	45.5	22.5	44.6	34.2
82.5°	26.9	34.2	19.5	33.3	27.7
85°	17.3	28.2	19.9	24.3	19.5
87.5°	8.2	14.3	12.6	12.1	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)