

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: P291482

Luminaire Tested: **14GR-LD5-20-A19/156-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291482
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-L92765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1902.0 lumens
Efficiency: N/A
Efficacy: 116.9 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

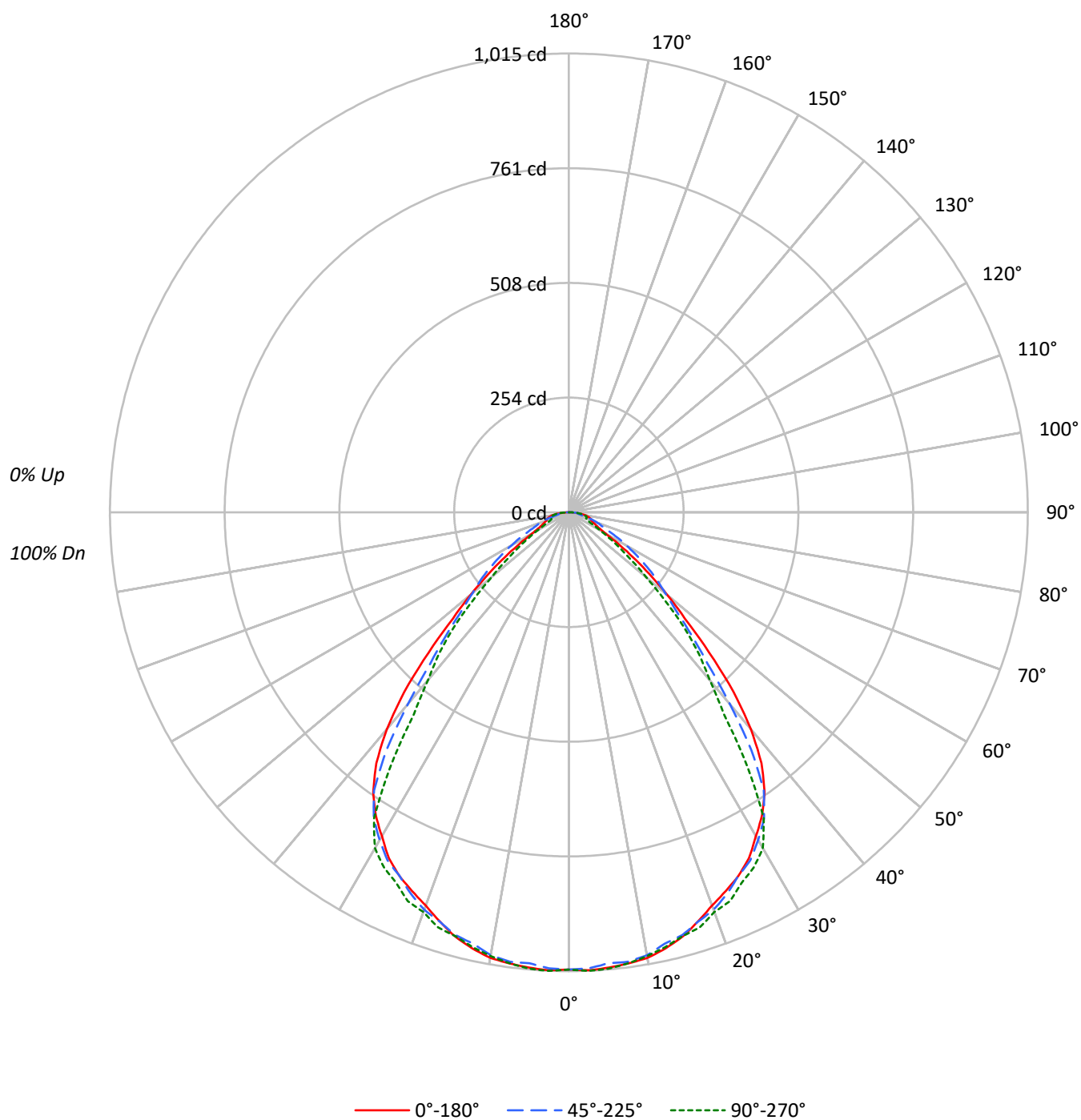
Input Watts (W): 16.275
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2722	2722	2722
5°	2731	2705	2737
10°	2735	2719	2723
15°	2707	2698	2704
20°	2651	2680	2694
25°	2635	2633	2684
30°	2570	2602	2665
35°	2479	2469	2268
40°	2201	1942	1701
45°	1670	1453	1375
50°	1185	1163	933
55°	811	993	641
60°	502	792	429
65°	413	610	311
70°	411	531	319
75°	494	381	425
80°	567	350	533
85°	537	618	605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	5.0
10°-20°	273.9	14.4
20°-30°	411.9	21.7
30°-40°	449.0	23.6
40°-50°	314.4	16.5
50°-60°	178.0	9.4
60°-70°	97.4	5.1
70°-80°	59.0	3.1
80°-90°	22.4	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°	781.8	41.1
0°-40°	1230.8	64.7
0°-60°	1723.2	90.6
0°-90°	1902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1902.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1011	1011	1011	1011	1011	
5°	1011	1009	1001	1013	1013	96
15°	972	969	968	982	970	273
25°	887	889	887	907	904	408
35°	754	751	752	713	690	465
45°	439	458	382	377	361	341
55°	173	207	212	210	137	158
65°	65	107	96	121	49	67
75°	48	68	37	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°	1011.4	1011.4	1011.4	1011.4	1011.4
2.5°	1014.0	1012.7	1009.7	1015.8	1015.3
5°	1011.0	1009.2	1001.4	1013.2	1013.2
7.5°	1006.6	1002.3	1002.7	1009.2	1006.2
10°	1001.0	993.6	994.9	996.6	996.6
12.5°	987.9	980.9	977.4	983.1	984.9
15°	971.8	969.2	968.3	982.2	970.5
17.5°	949.1	954.8	949.6	960.9	962.6
20°	925.6	936.5	935.7	943.5	940.9
22.5°	906.5	913.4	913.4	923.0	930.9
25°	887.3	889.1	886.9	907.4	903.9
27.5°	862.5	861.2	868.2	878.6	885.6
30°	827.2	827.7	837.3	851.2	857.7
32.5°	795.0	791.1	802.9	809.0	802.0
35°	754.5	751.0	751.5	713.2	690.5
37.5°	699.2	702.3	662.2	592.1	562.5
40°	626.5	632.6	552.9	500.7	484.2
42.5°	538.6	540.3	453.2	436.3	425.4
45°	438.9	458.0	381.8	377.0	361.4
47.5°	347.9	383.6	320.0	323.1	285.6
50°	283.0	318.7	277.8	279.1	222.9
52.5°	223.8	258.6	245.1	241.2	175.0
55°	172.8	206.8	211.6	209.9	136.7
57.5°	127.1	163.7	177.6	184.2	105.4
60°	93.2	133.7	147.2	160.2	79.7
62.5°	74.0	115.8	120.6	139.8	61.8
65°	64.9	106.7	95.8	121.0	48.8
67.5°	57.9	101.4	77.9	107.1	42.7
70°	52.2	91.4	67.5	95.8	40.5
72.5°	52.2	80.1	53.1	84.9	40.9
75°	47.5	68.4	36.6	71.8	40.9
77.5°	42.2	58.3	27.4	58.3	38.3
80°	36.6	45.7	22.6	44.8	34.4
82.5°	27.0	34.4	19.6	33.5	27.9
85°	17.4	28.3	20.0	24.4	19.6
87.5°	8.3	14.4	12.6	12.2	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)