

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: P291485

Luminaire Tested: **14GR-LD5-24-A19/156-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291485
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-LD5-24-A19/156-UNV-L92765-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2007.0 lumens
Efficiency: N/A
Efficacy: 110.1 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

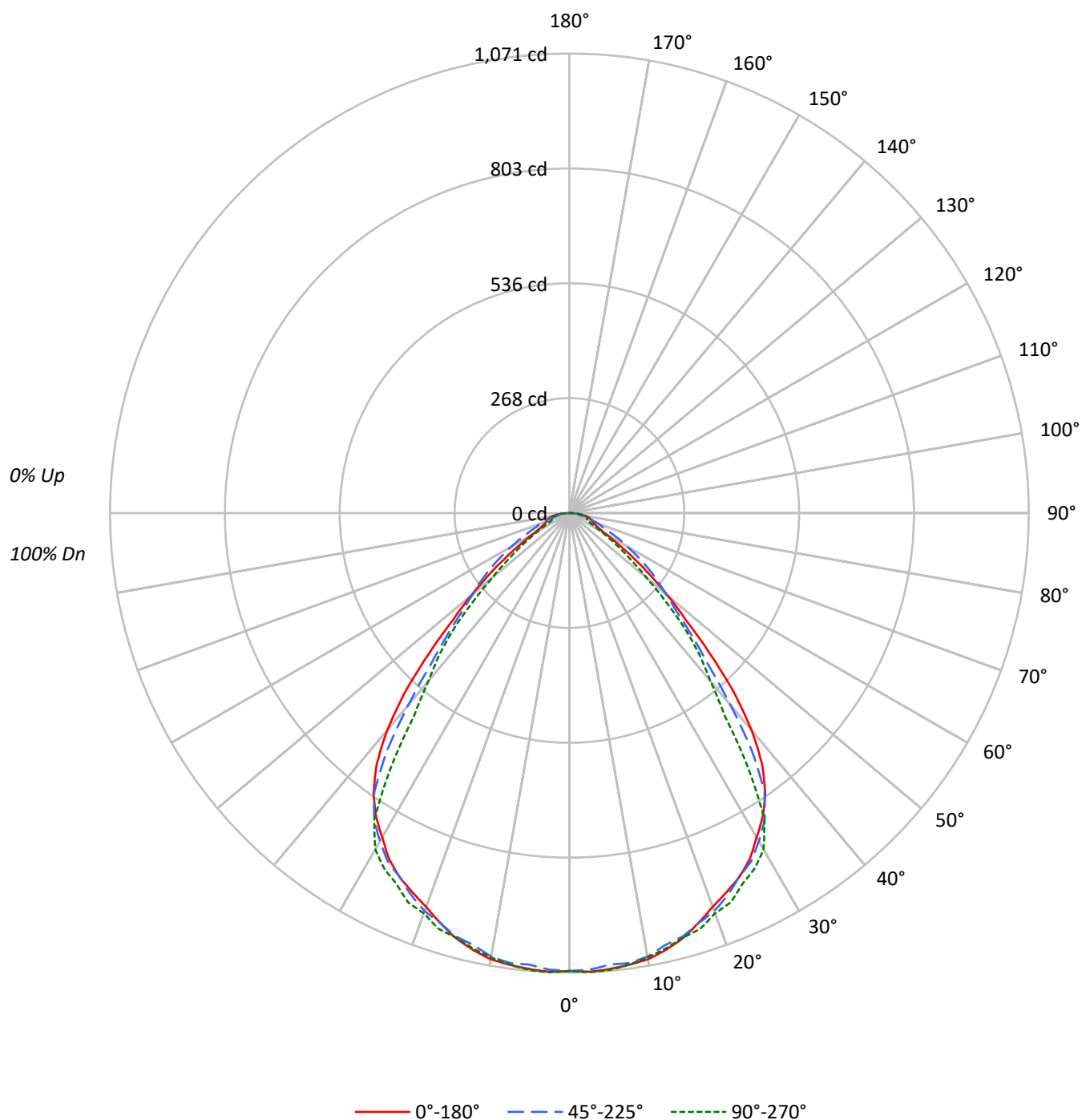
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2872	2872	2872
5°	2882	2854	2888
10°	2886	2869	2873
15°	2857	2847	2853
20°	2797	2827	2843
25°	2780	2779	2832
30°	2712	2745	2812
35°	2616	2605	2394
40°	2322	2050	1795
45°	1762	1533	1451
50°	1250	1227	985
55°	856	1048	677
60°	529	836	453
65°	436	644	328
70°	434	560	336
75°	521	401	449
80°	598	370	563
85°	568	651	639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	5.0
10°-20°	289.0	14.4
20°-30°	434.6	21.7
30°-40°	473.8	23.6
40°-50°	331.8	16.5
50°-60°	187.8	9.4
60°-70°	102.8	5.1
70°-80°	62.3	3.1
80°-90°	23.6	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°	824.9	41.1
0°-40°	1298.8	64.7
0°-60°	1818.3	90.6
0°-90°	2007.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2007.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1067	1067	1067	1067	1067	
5°	1067	1065	1057	1069	1069	101
15°	1025	1023	1022	1036	1024	288
25°	936	938	936	957	954	430
35°	796	792	793	752	729	491
45°	463	483	403	398	381	360
55°	182	218	223	221	144	167
65°	68	113	101	128	52	70
75°	50	72	39	76	43	52
85°	18	30	21	26	21	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1067.2	1067.2	1067.2	1067.2	1067.2
2.5°	1070.0	1068.6	1065.4	1071.8	1071.4
5°	1066.8	1064.9	1056.7	1069.1	1069.1
7.5°	1062.2	1057.6	1058.1	1064.9	1061.7
10°	1056.2	1048.4	1049.8	1051.6	1051.6
12.5°	1042.4	1035.1	1031.4	1037.4	1039.2
15°	1025.4	1022.7	1021.8	1036.5	1024.1
17.5°	1001.5	1007.5	1002.0	1014.0	1015.8
20°	976.7	988.2	987.3	995.6	992.8
22.5°	956.5	963.9	963.9	974.0	982.3
25°	936.3	938.1	935.8	957.4	953.8
27.5°	910.1	908.7	916.1	927.1	934.5
30°	872.9	873.4	883.5	898.2	905.1
32.5°	838.9	834.8	847.2	853.6	846.3
35°	796.2	792.5	793.0	752.5	728.6
37.5°	737.8	741.1	698.8	624.8	593.6
40°	661.1	667.5	583.5	528.3	510.9
42.5°	568.3	570.1	478.3	460.3	448.9
45°	463.1	483.3	402.9	397.9	381.3
47.5°	367.1	404.8	337.7	340.9	301.4
50°	298.6	336.3	293.1	294.5	235.2
52.5°	236.1	272.9	258.7	254.5	184.7
55°	182.4	218.2	223.3	221.4	144.3
57.5°	134.2	172.7	187.4	194.3	111.2
60°	98.3	141.0	155.3	169.1	84.1
62.5°	78.1	122.2	127.3	147.5	65.2
65°	68.5	112.6	101.1	127.7	51.5
67.5°	61.1	107.0	82.2	113.0	45.0
70°	55.1	96.5	71.2	101.1	42.7
72.5°	55.1	84.5	56.0	89.6	43.2
75°	50.1	72.1	38.6	75.8	43.2
77.5°	44.6	61.6	28.9	61.6	40.4
80°	38.6	48.2	23.9	47.3	36.3
82.5°	28.5	36.3	20.7	35.4	29.4
85°	18.4	29.9	21.1	25.7	20.7
87.5°	8.7	15.2	13.3	12.9	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)