

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: P225831

Luminaire Tested: **14GR-LD5-24-A19/156-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P225831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33288)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-24-A19/156-UNV-L935-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A19/156 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2004.3 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.18
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

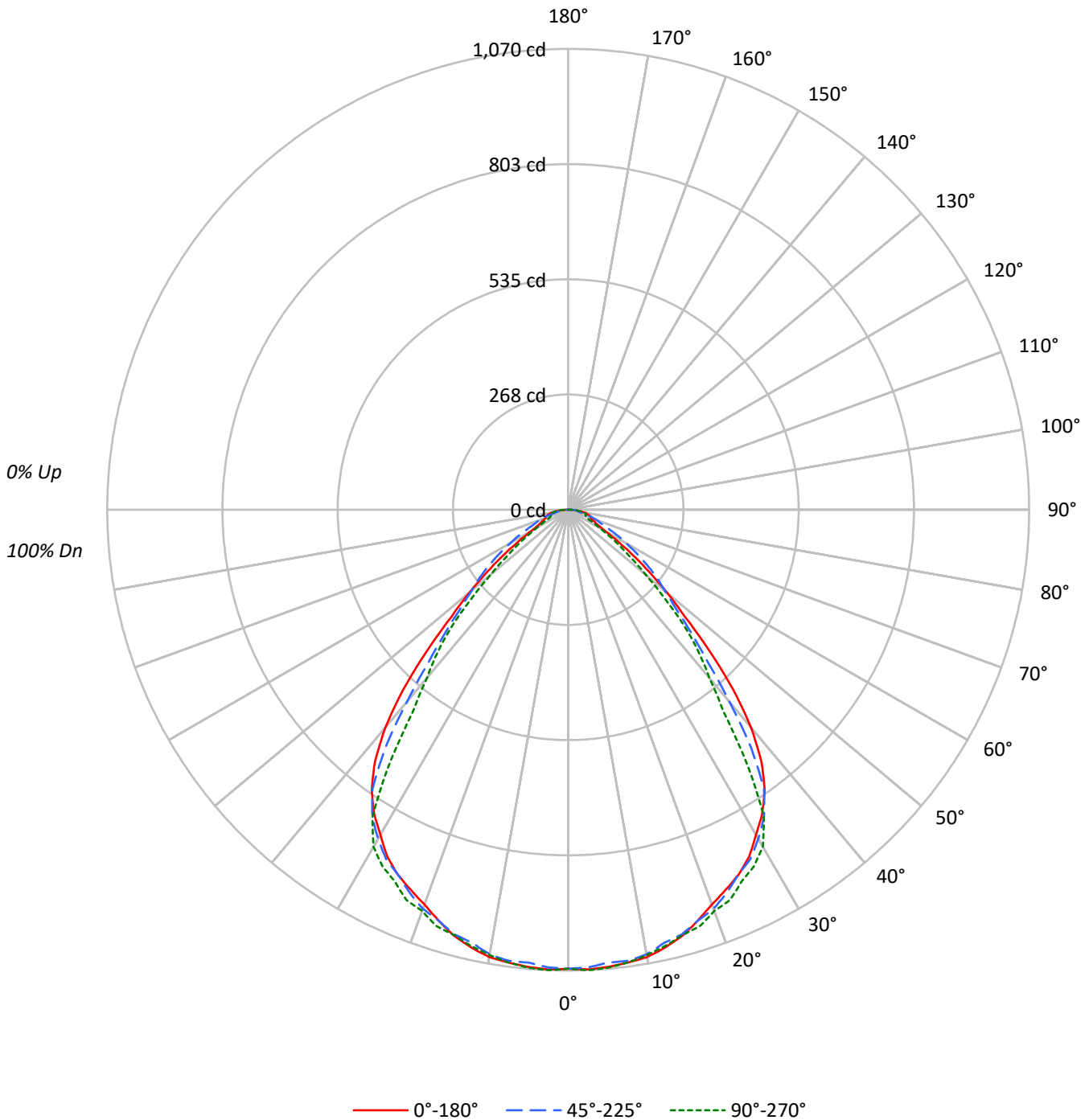
Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	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					100			
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90					88				
2	103	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79					77				
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70					68				
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63					61				
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56					54				
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51					49				
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46					44				
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42					40				
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38					37				
10	60	48	40	36	58	47	40	36	46	40	35	45	39	35	44	39	35					34				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3591	3591	3591
5°	3604	3569	3611
10°	3609	3587	3593
15°	3573	3560	3568
20°	3498	3536	3555
25°	3477	3475	3541
30°	3392	3433	3517
35°	3271	3257	2993
40°	2904	2563	2244
45°	2204	1918	1815
50°	1564	1534	1231
55°	1070	1310	847
60°	662	1045	566
65°	545	805	410
70°	543	700	421
75°	651	501	561
80°	747	464	702
85°	711	816	800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	5.0
10°-20°	288.6	14.4
20°-30°	434.1	21.7
30°-40°	473.2	23.6
40°-50°	331.3	16.5
50°-60°	187.6	9.4
60°-70°	102.6	5.1
70°-80°	62.2	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°	823.8	41.1
0°-40°	1297.0	64.7
0°-60°	1815.9	90.6
0°-90°	2004.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2004.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1066	1066	1066	1066	1066	
5°	1065	1064	1055	1068	1068	101
15°	1024	1021	1020	1035	1023	288
25°	935	937	935	956	952	429
35°	795	791	792	752	728	490
45°	462	483	402	397	381	359
55°	182	218	223	221	144	167
65°	68	112	101	128	51	70
75°	50	72	38	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°	1065.8	1065.8	1065.8	1065.8	1065.8
2.5°	1068.5	1067.2	1063.9	1070.4	1070.0
5°	1065.4	1063.5	1055.3	1067.7	1067.7
7.5°	1060.8	1056.2	1056.6	1063.5	1060.3
10°	1054.8	1047.0	1048.4	1050.2	1050.2
12.5°	1041.0	1033.7	1030.0	1036.0	1037.8
15°	1024.1	1021.3	1020.4	1035.0	1022.7
17.5°	1000.2	1006.1	1000.6	1012.6	1014.4
20°	975.5	986.9	986.0	994.2	991.4
22.5°	955.2	962.5	962.5	972.7	980.9
25°	935.1	936.9	934.6	956.2	952.5
27.5°	908.9	907.5	914.9	925.9	933.2
30°	871.8	872.2	882.3	897.0	903.9
32.5°	837.8	833.7	846.0	852.5	845.2
35°	795.1	791.4	791.9	751.5	727.7
37.5°	736.9	740.1	697.8	624.0	592.8
40°	660.2	666.7	582.7	527.6	510.2
42.5°	567.5	569.4	477.6	459.8	448.3
45°	462.5	482.6	402.4	397.3	380.8
47.5°	366.6	404.2	337.2	340.4	301.0
50°	298.3	335.8	292.7	294.1	234.9
52.5°	235.8	272.5	258.3	254.2	184.4
55°	182.2	217.9	223.0	221.2	144.1
57.5°	134.0	172.5	187.2	194.1	111.0
60°	98.2	140.8	155.0	168.8	84.0
62.5°	78.0	122.1	127.1	147.3	65.1
65°	68.3	112.4	101.0	127.6	51.4
67.5°	61.0	106.9	82.1	112.9	45.0
70°	55.1	96.4	71.1	101.0	42.7
72.5°	55.1	84.4	56.0	89.5	43.1
75°	50.0	72.0	38.5	75.7	43.1
77.5°	44.5	61.5	28.9	61.5	40.4
80°	38.5	48.2	23.9	47.3	36.2
82.5°	28.5	36.2	20.7	35.4	29.3
85°	18.4	29.8	21.1	25.7	20.7
87.5°	8.8	15.1	13.3	12.8	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)