

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: P225838

Luminaire Tested: **14GR-LD5-24-A19/156-UNV-L940-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P225838  
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-L940-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: 2062.3 lumens  
Efficiency: N/A  
Efficacy: 98.2 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

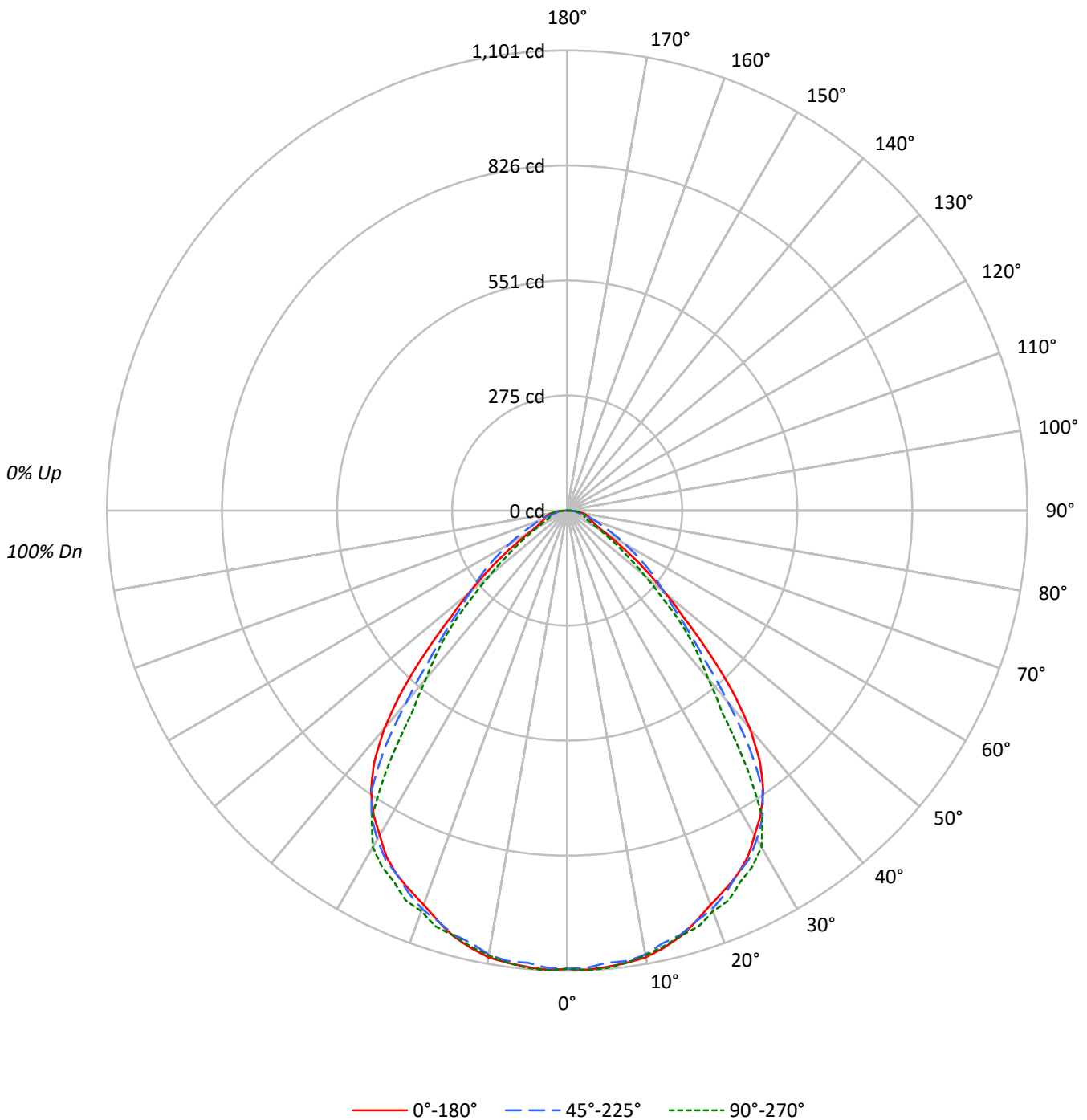
Input Watts (W): 21  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	3695	3695	3695
5°	3708	3673	3716
10°	3713	3691	3697
15°	3676	3663	3671
20°	3599	3638	3658
25°	3577	3576	3644
30°	3490	3532	3618
35°	3365	3352	3080
40°	2988	2637	2309
45°	2267	1973	1867
50°	1608	1579	1267
55°	1101	1348	871
60°	681	1075	582
65°	561	828	422
70°	559	721	433
75°	669	516	578
80°	768	475	724
85°	731	843	820



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.0	5.0
10°-20°	297.0	14.4
20°-30°	446.6	21.7
30°-40°	486.9	23.6
40°-50°	340.9	16.5
50°-60°	193.0	9.4
60°-70°	105.6	5.1
70°-80°	64.0	3.1
80°-90°	24.3	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°	847.7	41.1
0°-40°	1334.5	64.7
0°-60°	1868.4	90.6
0°-90°	2062.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2062.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1097	1097	1097	1097	1097	
5°	1096	1094	1086	1099	1099	104
15°	1054	1051	1050	1065	1052	296
25°	962	964	962	984	980	442
35°	818	814	815	773	749	504
45°	476	497	414	409	392	370
55°	187	224	229	228	148	171
65°	70	116	104	131	53	72
75°	51	74	40	78	44	53
85°	19	31	22	26	21	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1096.7	1096.7	1096.7	1096.7	1096.7
2.5°	1099.5	1098.0	1094.8	1101.4	1100.9
5°	1096.2	1094.3	1085.8	1098.6	1098.6
7.5°	1091.4	1086.7	1087.2	1094.3	1091.0
10°	1085.3	1077.3	1078.7	1080.6	1080.6
12.5°	1071.1	1063.6	1059.8	1066.0	1067.9
15°	1053.7	1050.8	1049.9	1065.0	1052.3
17.5°	1029.2	1035.3	1029.6	1041.9	1043.8
20°	1003.6	1015.4	1014.5	1023.0	1020.1
22.5°	982.9	990.5	990.5	1000.8	1009.3
25°	962.1	964.0	961.7	983.8	980.1
27.5°	935.2	933.8	941.4	952.6	960.2
30°	897.0	897.4	907.8	923.0	930.0
32.5°	862.0	857.8	870.5	877.1	869.5
35°	818.1	814.3	814.8	773.2	748.7
37.5°	758.2	761.4	718.0	642.0	609.9
40°	679.3	685.9	599.5	542.9	524.9
42.5°	583.9	585.8	491.4	473.0	461.2
45°	475.8	496.6	414.0	408.8	391.8
47.5°	377.2	415.9	347.0	350.3	309.7
50°	306.8	345.5	301.2	302.6	241.7
52.5°	242.6	280.4	265.7	261.5	189.8
55°	187.4	224.2	229.4	227.6	148.3
57.5°	137.9	177.5	192.6	199.7	114.2
60°	101.0	144.9	159.5	173.7	86.4
62.5°	80.2	125.6	130.8	151.5	67.0
65°	70.3	115.7	103.9	131.2	52.9
67.5°	62.8	110.0	84.5	116.1	46.3
70°	56.7	99.2	73.2	103.9	43.9
72.5°	56.7	86.9	57.6	92.0	44.4
75°	51.4	74.1	39.6	77.9	44.4
77.5°	45.8	63.3	29.8	63.3	41.5
80°	39.6	49.5	24.5	48.6	37.3
82.5°	29.2	37.3	21.2	36.4	30.2
85°	18.9	30.7	21.8	26.4	21.2
87.5°	8.9	15.6	13.7	13.2	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)