

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: P225748

Luminaire Tested: **22GR-LD5-24-A19/156-UNV-L935-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P225748  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33284)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-24-A19/156-UNV-L935-CD1-U  
Description: METALUX GR 2X2 LED TROFFER WITH A19/156 LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2057.8 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.21  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

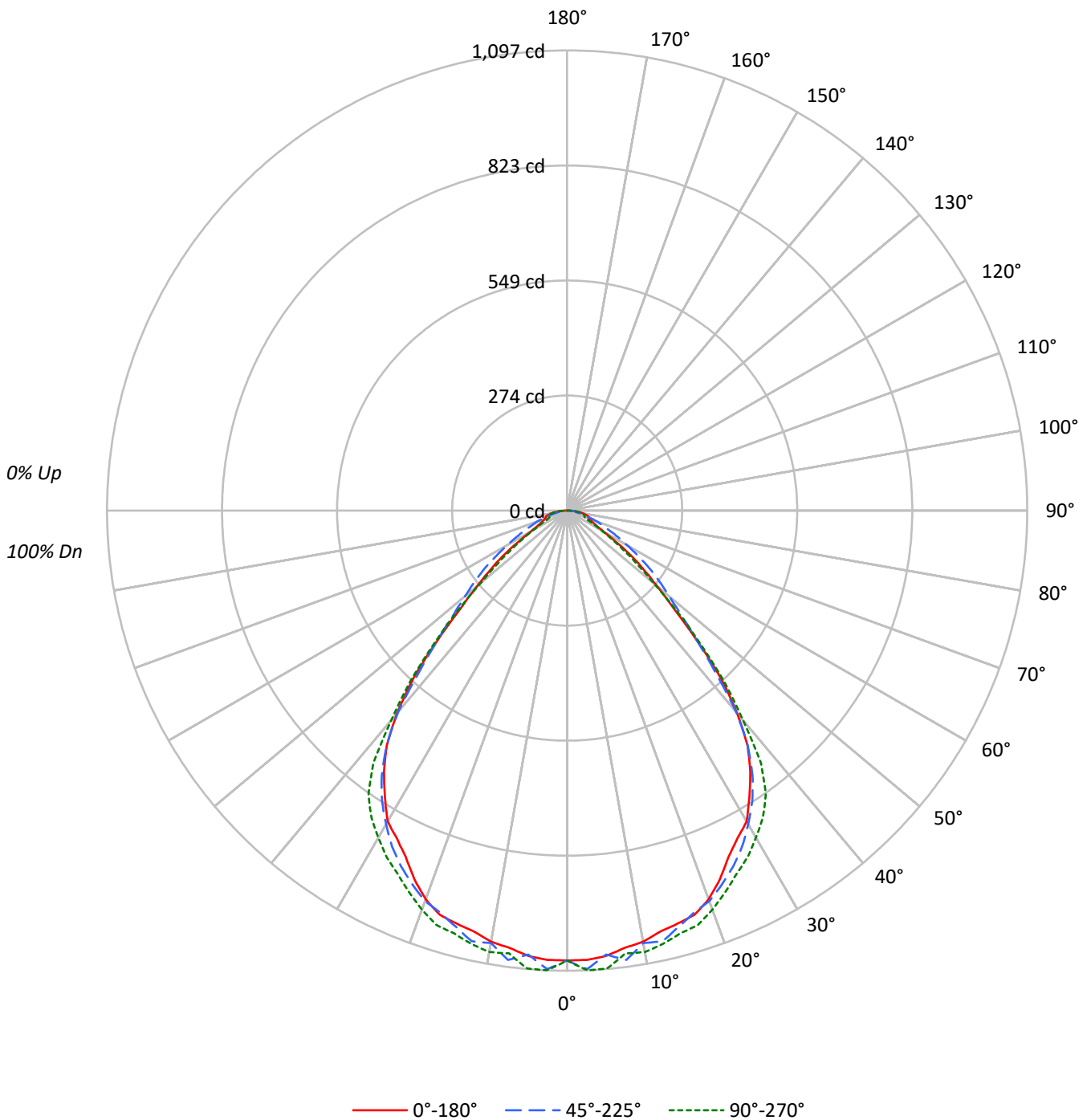
Input Watts (W): 19.219  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90	88
2	103	96	90	85	100	94	89	85	91	86	83	88	84	81	85	82	79	77
3	95	86	79	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68
4	88	78	71	65	86	77	70	64	75	68	64	72	67	63	70	66	62	60
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	59	56	54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41	40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3435	3435	3435
5°	3426	3415	3522
10°	3395	3404	3475
15°	3379	3405	3459
20°	3361	3377	3450
25°	3217	3308	3377
30°	3165	3193	3330
35°	2976	3014	3228
40°	2637	2619	2722
45°	1970	1974	2029
50°	1387	1577	1343
55°	1023	1332	918
60°	640	1053	600
65°	521	834	418
70°	517	695	413
75°	641	510	535
80°	716	402	653
85°	713	750	731



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.1	5.0
10°-20°	290.8	14.1
20°-30°	430.7	20.9
30°-40°	482.4	23.4
40°-50°	354.5	17.2
50°-60°	198.1	9.6
60°-70°	110.4	5.4
70°-80°	64.9	3.2
80°-90°	23.9	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°	823.6	40.0
0°-40°	1306.0	63.5
0°-60°	1858.7	90.3
0°-90°	2057.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2057.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1072	1072	1072	1072	1072	
5°	1066	1086	1062	1084	1096	101
15°	1019	1025	1027	1042	1043	288
25°	910	918	936	949	956	422
35°	761	762	771	806	826	472
45°	435	470	436	467	448	340
55°	183	223	238	238	164	164
65°	69	122	110	141	55	71
75°	52	73	41	83	43	52
85°	19	29	20	26	20	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1072.5	1072.5	1072.5	1072.5	1072.5
2.5°	1072.0	1081.7	1094.3	1095.7	1096.8
5°	1065.7	1085.6	1062.3	1084.1	1095.7
7.5°	1051.2	1063.3	1080.3	1058.4	1064.7
10°	1043.9	1046.8	1046.8	1074.0	1068.6
12.5°	1027.4	1046.8	1051.6	1046.4	1057.9
15°	1019.2	1025.4	1026.9	1042.4	1043.4
17.5°	1010.0	1008.5	1005.1	1016.3	1036.1
20°	986.2	980.8	991.0	1004.6	1012.4
22.5°	951.3	952.8	964.8	976.0	984.7
25°	910.5	917.8	936.3	949.4	955.7
27.5°	880.0	890.7	903.3	918.8	931.4
30°	855.8	854.8	863.5	885.8	900.4
32.5°	808.8	812.1	821.4	848.0	868.4
35°	761.3	761.7	770.9	805.8	825.7
37.5°	706.4	702.5	707.9	745.7	758.8
40°	630.8	631.8	626.4	653.1	651.2
42.5°	542.6	550.3	522.7	557.6	555.1
45°	434.9	470.3	435.9	466.9	448.0
47.5°	343.3	395.7	367.0	389.8	354.4
50°	278.3	332.1	316.6	326.8	269.6
52.5°	228.4	272.0	276.8	279.3	210.5
55°	183.3	223.0	238.5	238.1	164.4
57.5°	135.2	181.3	199.2	206.6	124.6
60°	99.9	150.8	164.4	180.4	93.6
62.5°	80.5	132.3	135.7	158.1	71.3
65°	68.8	122.1	110.1	141.1	55.2
67.5°	61.1	113.9	89.7	126.1	47.0
70°	55.2	101.3	74.2	113.0	44.1
72.5°	53.8	86.3	57.2	100.8	43.6
75°	51.8	73.2	41.2	82.9	43.2
77.5°	44.6	62.6	29.6	64.0	40.2
80°	38.8	50.0	21.8	48.0	35.4
82.5°	30.1	37.8	19.4	36.4	28.6
85°	19.4	28.6	20.4	26.2	19.9
87.5°	9.2	16.0	14.5	14.0	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)