

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: P225840

Luminaire Tested: **14GR-LD5-32-A19/156-UNV-L940-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P225840  
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-LD5-32-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: 2769.2 lumens  
Efficiency: N/A  
Efficacy: 92.6 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

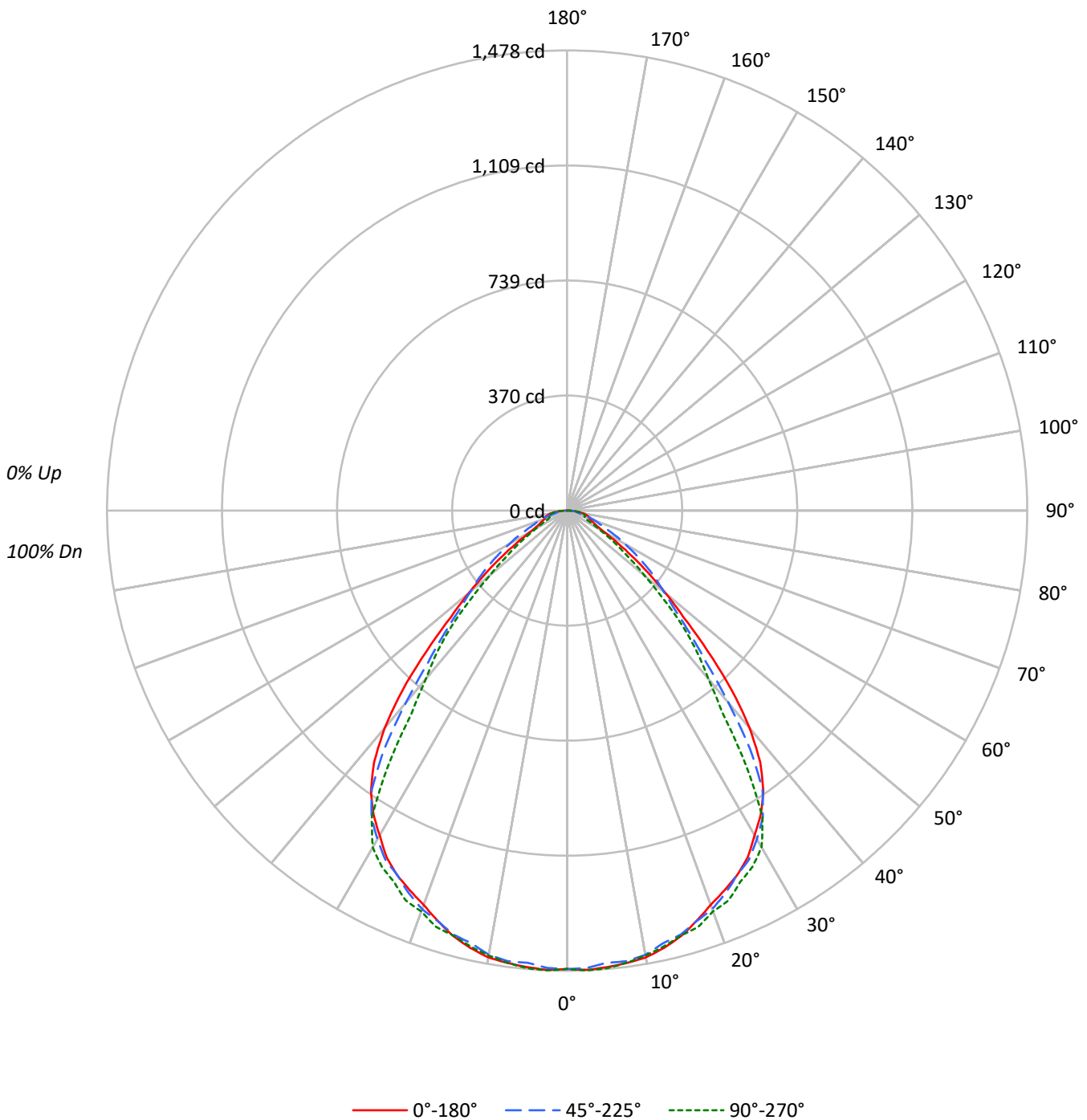
Input Watts (W): 29.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4962	4962	4962
5°	4979	4932	4989
10°	4987	4956	4965
15°	4936	4918	4929
20°	4833	4885	4912
25°	4803	4801	4893
30°	4686	4743	4859
35°	4519	4501	4135
40°	4012	3541	3101
45°	3045	2649	2507
50°	2160	2120	1702
55°	1478	1810	1169
60°	914	1444	782
65°	753	1112	566
70°	750	967	580
75°	900	693	776
80°	1032	638	972
85°	982	1129	1106



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.7	5.0
10°-20°	398.8	14.4
20°-30°	599.7	21.7
30°-40°	653.8	23.6
40°-50°	457.8	16.5
50°-60°	259.1	9.4
60°-70°	141.8	5.1
70°-80°	85.9	3.1
80°-90°	32.6	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°	1138.2	41.1
0°-40°	1792.0	64.7
0°-60°	2508.9	90.6
0°-90°	2769.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2769.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1473	1473	1473	1473	1473	
5°	1472	1469	1458	1475	1475	140
15°	1415	1411	1410	1430	1413	398
25°	1292	1294	1291	1321	1316	593
35°	1099	1094	1094	1038	1005	677
45°	639	667	556	549	526	496
55°	252	301	308	306	199	230
65°	94	155	140	176	71	97
75°	69	100	53	105	60	72
85°	25	41	29	36	29	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1472.6	1472.6	1472.6	1472.6	1472.6
2.5°	1476.4	1474.5	1470.0	1478.9	1478.3
5°	1471.9	1469.4	1458.0	1475.1	1475.1
7.5°	1465.6	1459.2	1459.8	1469.4	1464.9
10°	1457.4	1446.5	1448.5	1451.0	1451.0
12.5°	1438.4	1428.2	1423.1	1431.4	1433.9
15°	1414.9	1411.1	1409.8	1430.1	1413.0
17.5°	1381.9	1390.1	1382.5	1399.0	1401.5
20°	1347.7	1363.5	1362.2	1373.7	1369.9
22.5°	1319.8	1329.9	1329.9	1343.8	1355.3
25°	1291.9	1294.4	1291.3	1321.0	1316.0
27.5°	1255.8	1253.9	1264.0	1279.2	1289.4
30°	1204.4	1205.0	1219.0	1239.3	1248.8
32.5°	1157.5	1151.8	1168.9	1177.8	1167.6
35°	1098.6	1093.5	1094.1	1038.4	1005.3
37.5°	1018.1	1022.5	964.1	862.1	819.0
40°	912.2	921.1	805.0	729.0	704.9
42.5°	784.1	786.6	659.9	635.2	619.3
45°	639.0	666.8	555.9	548.9	526.1
47.5°	506.5	558.5	465.9	470.3	415.8
50°	412.0	464.1	404.5	406.3	324.6
52.5°	325.9	376.5	356.9	351.2	254.8
55°	251.6	301.1	308.1	305.6	199.0
57.5°	185.1	238.3	258.6	268.1	153.4
60°	135.6	194.6	214.2	233.3	116.0
62.5°	107.8	168.6	175.6	203.5	90.0
65°	94.4	155.3	139.5	176.2	71.0
67.5°	84.3	147.7	113.4	155.9	62.1
70°	76.1	133.1	98.2	139.5	58.9
72.5°	76.1	116.6	77.3	123.6	59.6
75°	69.1	99.5	53.2	104.6	59.6
77.5°	61.5	85.0	39.9	85.0	55.8
80°	53.2	66.6	32.9	65.3	50.1
82.5°	39.3	50.1	28.6	48.8	40.6
85°	25.4	41.2	29.2	35.5	28.6
87.5°	12.0	20.9	18.4	17.7	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)