

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: P225909

Luminaire Tested: **14GR-LD5-32-A-UNV-L930-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P225909  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-32-A-UNV-L930-CD1-U  
Description: METALUX GR 1X4 LED TROFFER WITH A LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2685.9 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

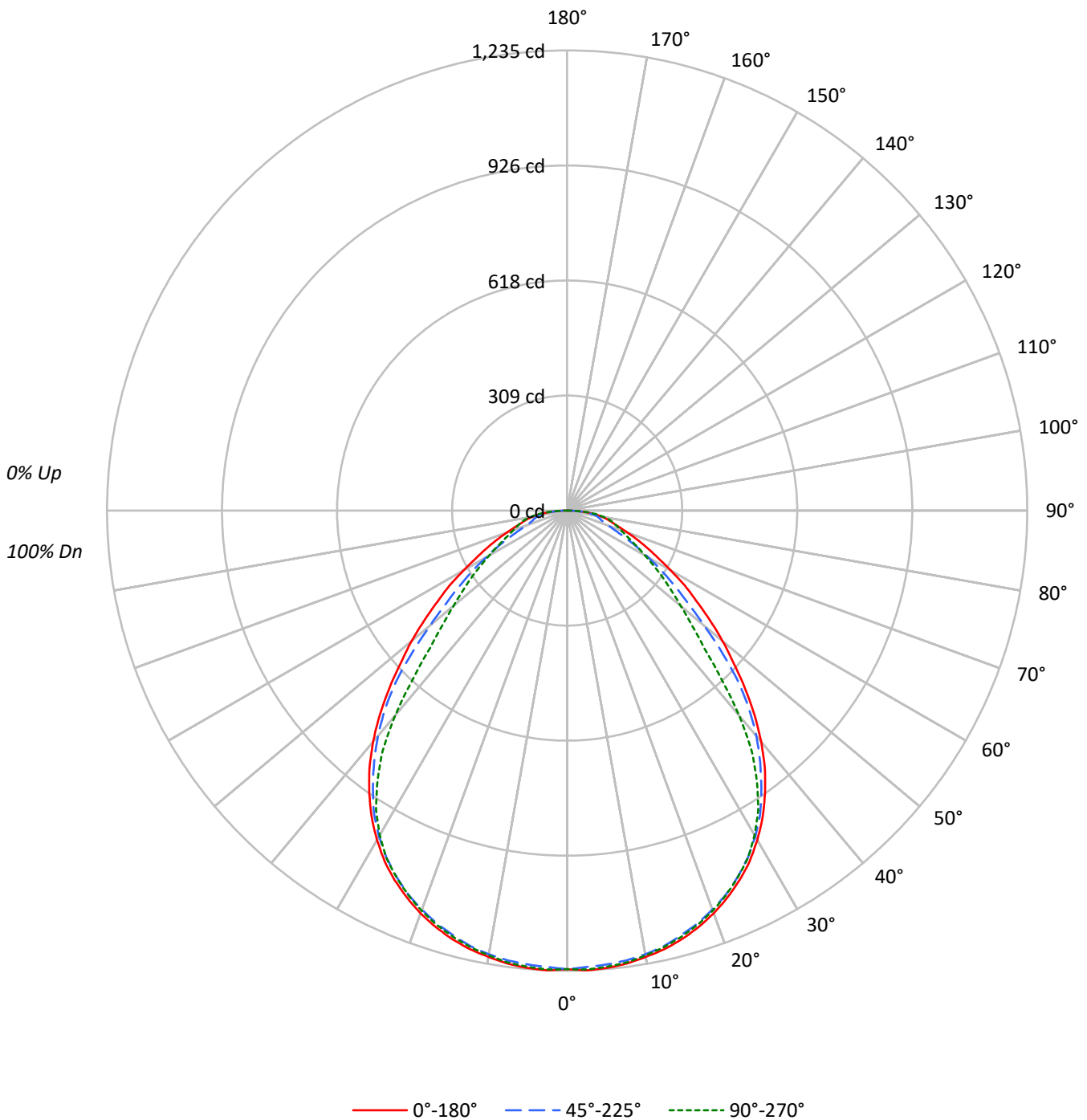
Input Watts (W): 29.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74				74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64				64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56				56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44				44
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40				40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36				36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33				33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30				30

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

	0°	45°	90°
0°	4147	4147	4147
5°	4168	4136	4157
10°	4162	4137	4147
15°	4154	4117	4130
20°	4125	4087	4098
25°	4070	4031	4033
30°	3971	3929	3913
35°	3808	3739	3654
40°	3564	3474	3161
45°	3219	3098	2470
50°	2855	2515	2090
55°	2492	2063	1843
60°	2161	1698	1627
65°	1895	1363	1502
70°	1691	1156	1512
75°	1650	1217	1689
80°	1828	1539	1937
85°	1906	1639	2266



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.8	4.3
10°-20°	334.5	12.5
20°-30°	500.4	18.6
30°-40°	564.9	21.0
40°-50°	479.2	17.8
50°-60°	324.3	12.1
60°-70°	193.5	7.2
70°-80°	121.2	4.5
80°-90°	51.0	1.9
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°	951.7	35.4
0°-40°	1516.6	56.5
0°-60°	2320.1	86.4
0°-90°	2685.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2685.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1231	1231	1231	1231	1231	
5°	1232	1228	1223	1231	1229	117
15°	1191	1188	1180	1188	1184	336
25°	1095	1091	1084	1089	1085	503
35°	926	920	909	901	888	577
45°	676	678	650	557	518	521
55°	424	404	351	314	314	382
65°	238	197	171	182	188	238
75°	127	113	94	124	130	136
85°	49	47	42	55	59	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1230.8	1230.8	1230.8	1230.8	1230.8
2.5°	1235.1	1231.4	1225.8	1233.3	1232.6
5°	1232.1	1228.3	1222.7	1231.4	1228.9
7.5°	1226.4	1223.3	1217.7	1225.8	1223.3
10°	1216.4	1214.0	1209.0	1215.8	1212.0
12.5°	1205.8	1204.0	1197.7	1204.0	1200.3
15°	1190.9	1188.4	1180.3	1188.4	1184.0
17.5°	1172.1	1169.1	1162.2	1169.1	1165.3
20°	1150.3	1146.6	1139.7	1146.6	1142.8
22.5°	1124.2	1121.0	1114.8	1121.0	1116.0
25°	1094.8	1091.0	1084.2	1089.2	1084.8
27.5°	1061.1	1056.1	1049.9	1053.6	1051.1
30°	1020.6	1014.3	1009.9	1009.9	1005.6
32.5°	976.2	971.9	964.5	960.1	954.4
35°	925.8	919.5	908.9	900.8	888.3
37.5°	871.5	863.9	850.9	830.3	813.5
40°	810.3	800.9	789.7	749.2	718.6
42.5°	744.8	742.9	723.6	654.4	612.0
45°	675.6	678.1	650.1	557.1	518.4
47.5°	605.7	614.4	563.3	472.3	452.3
50°	544.6	547.7	479.7	409.9	398.6
52.5°	481.6	476.6	409.2	360.6	352.4
55°	424.2	404.2	351.2	314.4	313.7
57.5°	373.7	336.9	300.0	272.6	275.7
60°	320.6	279.5	252.0	237.0	241.4
62.5°	273.8	234.6	210.2	205.8	213.3
65°	237.7	197.1	170.9	182.2	188.4
67.5°	203.4	169.1	139.1	165.9	168.4
70°	171.6	146.6	117.3	152.8	153.5
72.5°	145.3	129.7	101.7	138.5	140.4
75°	126.7	112.9	93.5	123.5	129.7
77.5°	111.1	96.7	86.7	106.7	117.3
80°	94.2	77.9	79.3	89.2	99.8
82.5°	72.4	60.5	63.0	73.6	81.1
85°	49.3	46.8	42.4	54.9	58.6
87.5°	26.2	25.0	21.8	31.2	29.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)