

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: P225916

Luminaire Tested: **14GR-LD5-32-A-UNV-L935-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P225916  
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-L935-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: 2798.2 lumens  
Efficiency: N/A  
Efficacy: 93.6 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

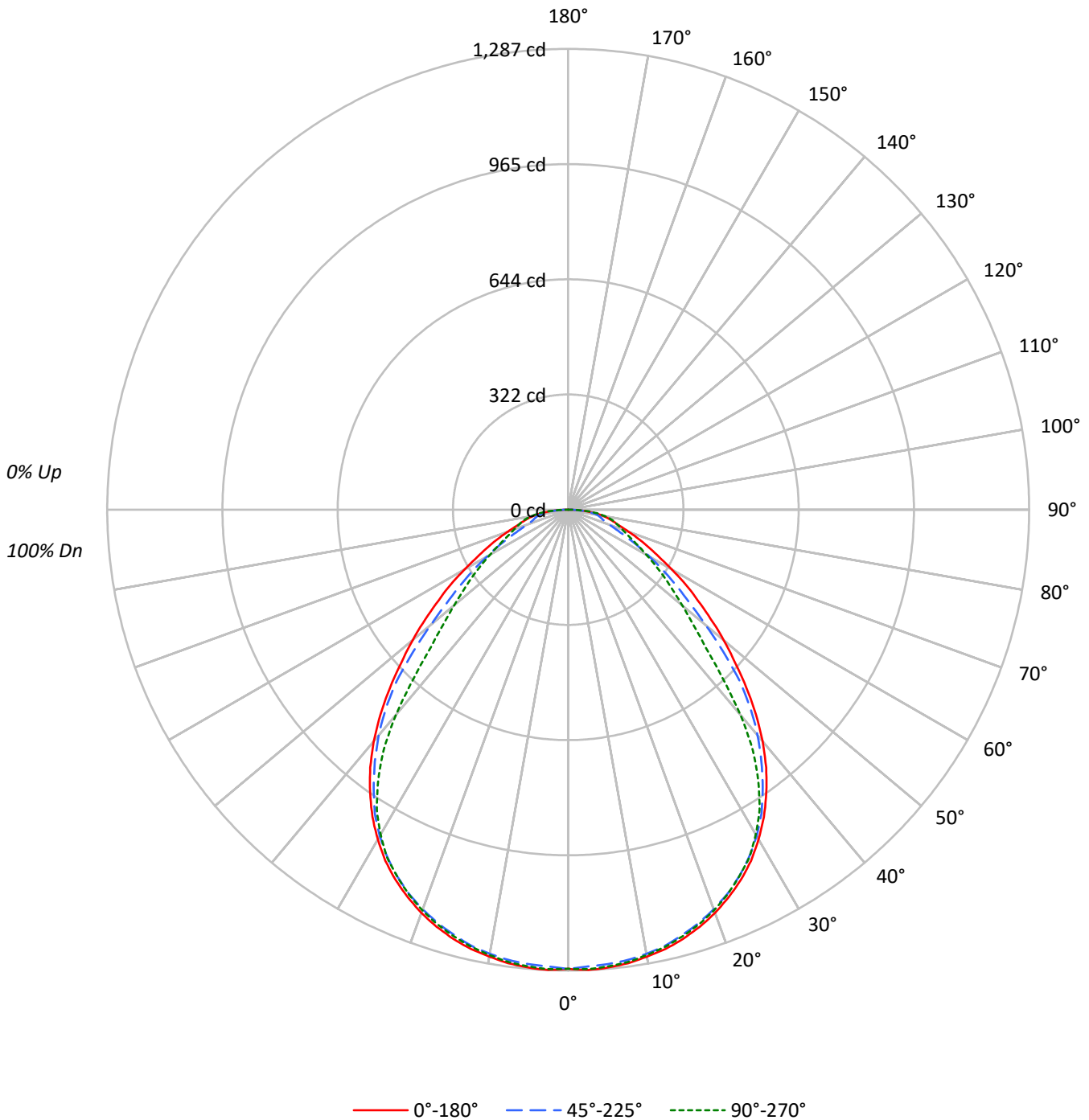
Input Watts (W): 29.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30

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

	0°	45°	90°
0°	4320	4320	4320
5°	4342	4309	4331
10°	4336	4309	4321
15°	4328	4289	4303
20°	4297	4258	4269
25°	4241	4200	4202
30°	4137	4094	4076
35°	3967	3895	3807
40°	3713	3619	3293
45°	3354	3227	2574
50°	2974	2620	2177
55°	2596	2150	1920
60°	2251	1770	1695
65°	1974	1420	1565
70°	1762	1203	1575
75°	1717	1269	1760
80°	1906	1601	2018
85°	1983	1709	2362



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.7	4.3
10°-20°	348.5	12.5
20°-30°	521.4	18.6
30°-40°	588.5	21.0
40°-50°	499.3	17.8
50°-60°	337.8	12.1
60°-70°	201.6	7.2
70°-80°	126.3	4.5
80°-90°	53.1	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°	991.5	35.4
0°-40°	1580.1	56.5
0°-60°	2417.2	86.4
0°-90°	2798.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2798.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1282	1282	1282	1282	1282	
5°	1284	1280	1274	1283	1280	122
15°	1241	1238	1230	1238	1234	350
25°	1141	1137	1130	1135	1130	524
35°	964	958	947	938	926	601
45°	704	706	677	580	540	542
55°	442	421	366	328	327	398
65°	248	205	178	190	196	247
75°	132	118	98	129	135	142
85°	51	49	44	57	61	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1282.2	1282.2	1282.2	1282.2	1282.2
2.5°	1286.8	1282.9	1277.0	1284.9	1284.2
5°	1283.6	1279.7	1273.8	1282.9	1280.3
7.5°	1277.7	1274.5	1268.6	1277.0	1274.5
10°	1267.4	1264.7	1259.5	1266.7	1262.8
12.5°	1256.3	1254.3	1247.8	1254.3	1250.4
15°	1240.7	1238.0	1229.6	1238.0	1233.5
17.5°	1221.2	1217.9	1210.7	1217.9	1214.1
20°	1198.4	1194.5	1187.4	1194.5	1190.6
22.5°	1171.1	1167.9	1161.4	1167.9	1162.7
25°	1140.6	1136.7	1129.6	1134.8	1130.2
27.5°	1105.5	1100.3	1093.8	1097.7	1095.1
30°	1063.3	1056.7	1052.2	1052.2	1047.6
32.5°	1017.1	1012.5	1004.8	1000.2	994.3
35°	964.5	958.0	946.9	938.5	925.5
37.5°	907.9	900.2	886.5	865.0	847.4
40°	844.2	834.4	822.8	780.6	748.7
42.5°	776.0	774.0	753.9	681.8	637.6
45°	703.9	706.4	677.2	580.4	540.1
47.5°	631.0	640.1	586.8	492.0	471.2
50°	567.4	570.6	499.8	427.0	415.3
52.5°	501.8	496.5	426.4	375.6	367.2
55°	441.9	421.2	365.9	327.6	326.9
57.5°	389.3	351.0	312.6	284.0	287.2
60°	334.0	291.1	262.6	246.9	251.5
62.5°	285.3	244.4	219.0	214.5	222.3
65°	247.6	205.4	178.1	189.8	196.3
67.5°	211.9	176.1	144.9	172.9	175.4
70°	178.8	152.7	122.1	159.2	159.9
72.5°	151.4	135.2	105.9	144.2	146.2
75°	131.9	117.6	97.5	128.7	135.2
77.5°	115.7	100.7	90.4	111.1	122.1
80°	98.2	81.3	82.5	92.9	104.0
82.5°	75.4	63.1	65.6	76.7	84.5
85°	51.3	48.7	44.2	57.2	61.1
87.5°	27.3	26.0	22.8	32.5	30.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)