

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: P225883

Luminaire Tested: **14GR-LD5-36-F1-UNV-L930-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P225883  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35602)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-36-F1-UNV-L930-CD1-U  
Description: METALUX GR 1X4 LED TROFFER WITH F1 LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2995.5 lumens  
Efficiency: N/A  
Efficacy: 85.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

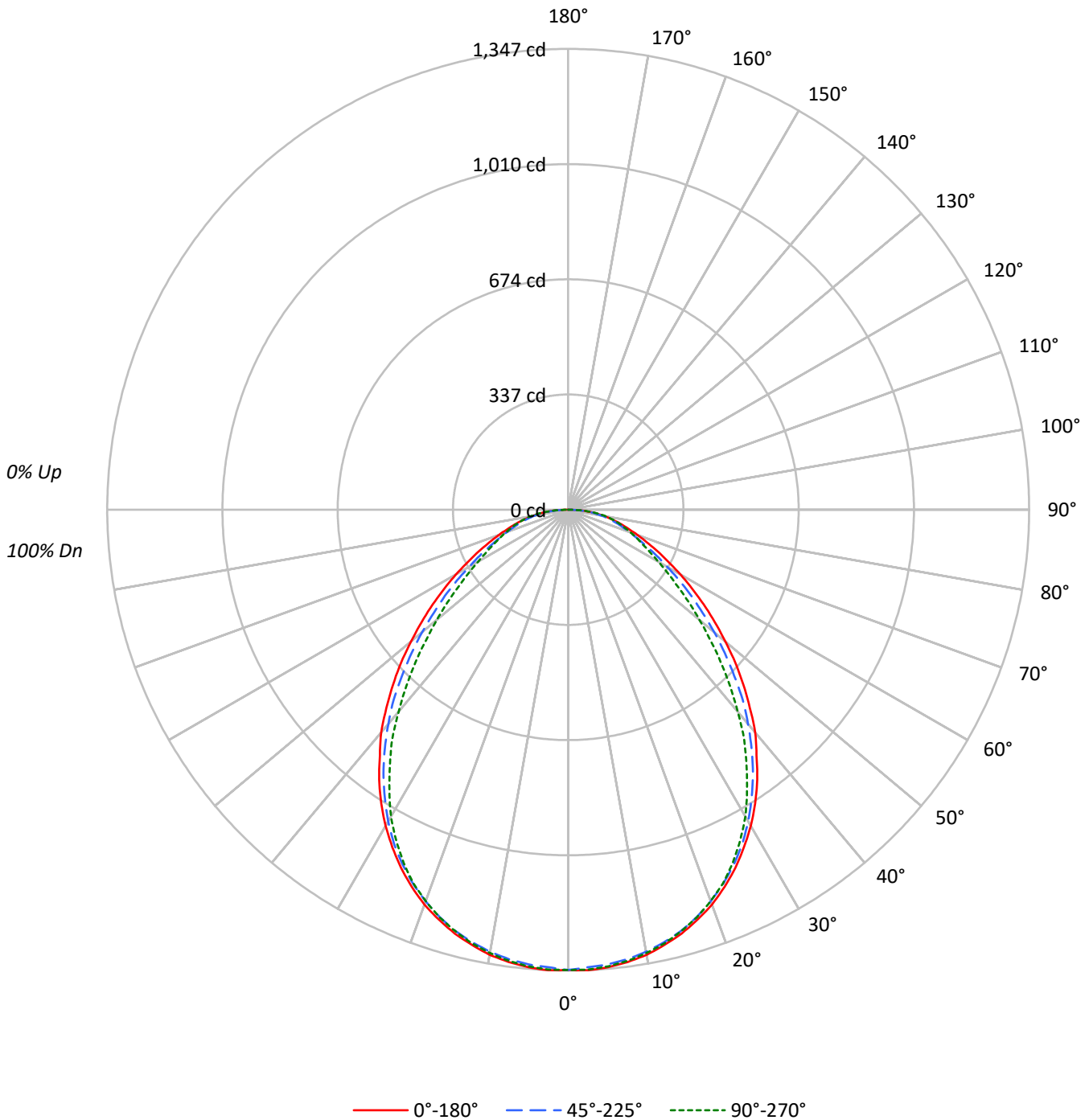
Input Watts (W): 35  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87					85				
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75					73				
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65					63				
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57					55				
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50					48				
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45					43				
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	45	40					38				
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36					34				
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33					31				
10	56	43	36	31	55	43	36	31	42	35	30	41	35	30	40	34	30					29				

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

	0°	45°	90°
0°	4533	4533	4533
5°	4541	4513	4532
10°	4520	4488	4503
15°	4474	4447	4450
20°	4406	4368	4365
25°	4295	4256	4232
30°	4152	4092	4029
35°	3961	3872	3733
40°	3740	3595	3390
45°	3449	3269	3005
50°	3142	2921	2625
55°	2838	2584	2288
60°	2554	2248	2045
65°	2291	2007	1918
70°	2114	1867	1901
75°	2039	1847	2002
80°	2049	1927	2171
85°	2188	1999	2273



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.1	4.2
10°-20°	360.0	12.0
20°-30°	526.9	17.6
30°-40°	585.6	19.6
40°-50°	526.5	17.6
50°-60°	393.6	13.1
60°-70°	259.2	8.7
70°-80°	157.6	5.3
80°-90°	59.0	2.0
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°	1014.0	33.8
0°-40°	1599.6	53.4
0°-60°	2519.7	84.1
0°-90°	2995.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2995.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1345	1345	1345	1345	1345	
5°	1342	1340	1334	1341	1340	127
15°	1282	1280	1275	1279	1276	361
25°	1155	1153	1145	1143	1138	531
35°	963	958	941	921	908	601
45°	724	716	686	649	631	558
55°	483	473	440	404	390	434
65°	287	277	252	241	240	287
75°	157	150	142	149	154	167
85°	57	52	52	60	59	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1345.3	1345.3	1345.3	1345.3	1345.3
2.5°	1347.4	1344.7	1338.4	1346.1	1345.3
5°	1342.5	1339.8	1334.1	1341.2	1339.8
7.5°	1333.5	1330.0	1325.1	1332.1	1330.0
10°	1320.9	1317.4	1311.8	1319.5	1316.0
12.5°	1302.7	1300.6	1295.0	1300.6	1298.5
15°	1282.4	1279.6	1274.7	1278.9	1275.5
17.5°	1256.5	1253.7	1248.2	1253.7	1249.6
20°	1228.6	1225.1	1218.1	1222.3	1217.4
22.5°	1193.6	1190.1	1183.8	1185.9	1181.8
25°	1155.2	1153.0	1144.7	1142.6	1138.3
27.5°	1112.5	1109.0	1101.3	1097.1	1088.7
30°	1067.0	1063.6	1051.7	1044.7	1035.6
32.5°	1017.4	1011.9	997.8	986.0	972.7
35°	962.9	958.0	941.2	920.9	907.6
37.5°	904.1	901.3	880.4	855.1	844.7
40°	850.3	839.8	817.4	786.7	770.6
42.5°	785.9	779.0	755.2	720.9	700.7
45°	723.8	716.0	686.0	648.9	630.7
47.5°	662.9	654.5	620.3	583.9	562.9
50°	599.3	592.3	557.3	516.8	500.7
52.5°	539.8	530.7	494.3	458.0	444.0
55°	483.1	472.7	439.8	403.5	389.5
57.5°	429.4	416.7	385.3	353.8	344.7
60°	379.0	365.0	333.6	310.5	303.4
62.5°	330.0	319.6	291.6	274.1	269.9
65°	287.4	276.9	251.7	241.3	240.5
67.5°	248.3	237.7	218.2	215.4	216.8
70°	214.6	205.6	189.5	190.9	193.0
72.5°	183.2	174.8	165.0	168.5	172.7
75°	156.6	149.6	141.9	148.9	153.8
77.5°	131.5	124.5	120.3	127.2	132.9
80°	105.6	100.7	99.3	107.0	111.9
82.5°	81.8	77.6	75.5	85.3	87.4
85°	56.6	52.5	51.7	60.2	58.8
87.5°	30.0	26.6	26.6	31.5	28.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)