

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: P225888

Luminaire Tested: **14GR-LD5-28-F1-UNV-L935-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P225888  
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-LD5-28-F1-UNV-L935-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: 2382.5 lumens  
Efficiency: N/A  
Efficacy: 95.7 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

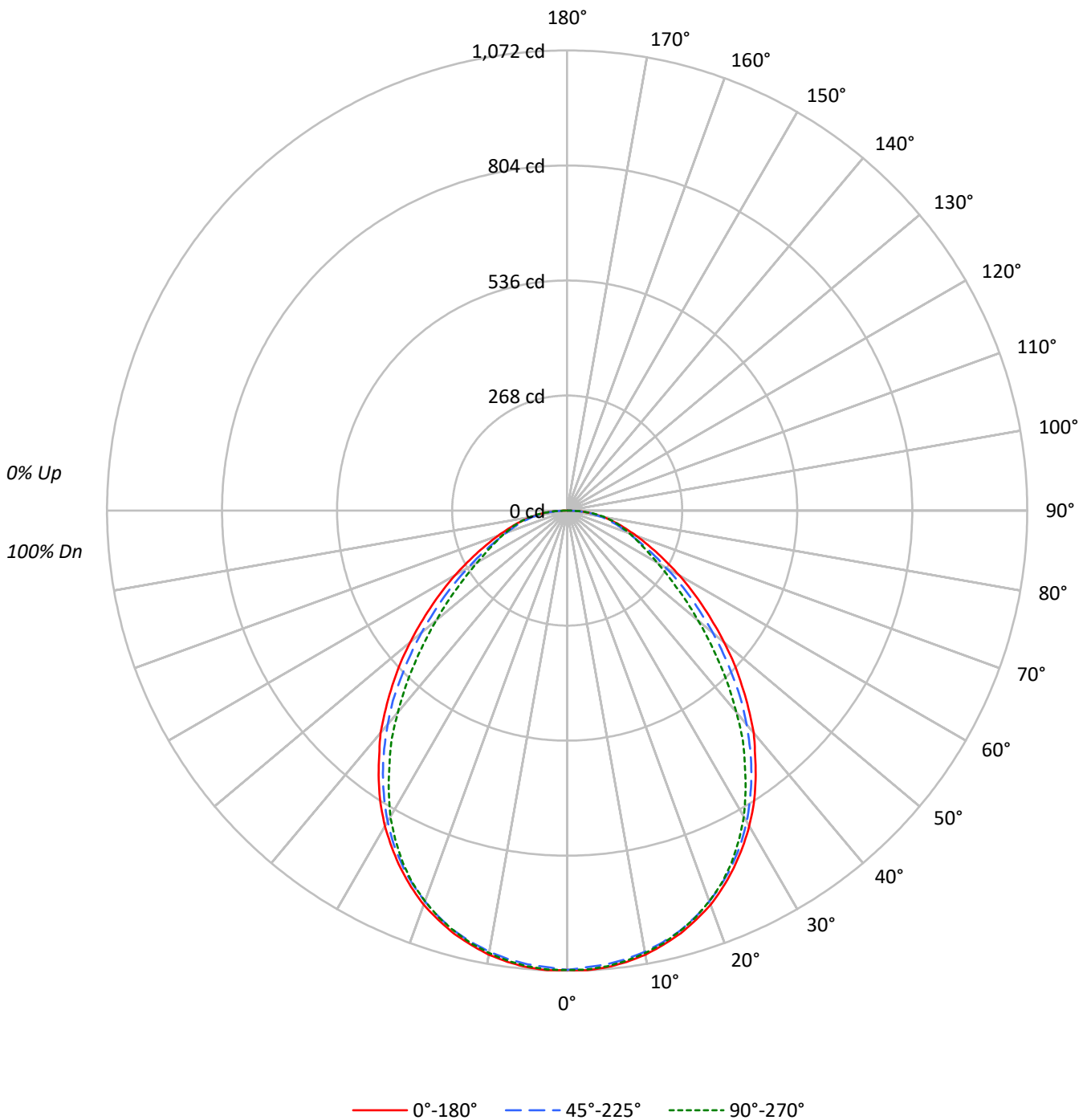
Input Watts (W): 24.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3606	3606	3606
5°	3612	3589	3604
10°	3595	3570	3581
15°	3558	3537	3539
20°	3504	3474	3472
25°	3416	3385	3366
30°	3302	3255	3205
35°	3150	3079	2970
40°	2975	2860	2696
45°	2743	2600	2391
50°	2499	2324	2087
55°	2258	2056	1820
60°	2031	1788	1627
65°	1823	1597	1525
70°	1683	1485	1512
75°	1622	1470	1594
80°	1630	1533	1727
85°	1740	1589	1809



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.1	4.2
10°-20°	286.3	12.0
20°-30°	419.1	17.6
30°-40°	465.8	19.5
40°-50°	418.7	17.6
50°-60°	313.1	13.1
60°-70°	206.2	8.7
70°-80°	125.4	5.3
80°-90°	46.9	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°	806.5	33.9
0°-40°	1272.3	53.4
0°-60°	2004.1	84.1
0°-90°	2382.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2382.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1070	1070	1070	1070	1070	
5°	1068	1066	1061	1067	1066	101
15°	1020	1018	1014	1017	1014	287
25°	919	917	910	909	905	422
35°	766	762	749	732	722	478
45°	576	570	546	516	502	444
55°	384	376	350	321	310	345
65°	229	220	200	192	191	229
75°	125	119	113	118	122	133
85°	45	42	41	48	47	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1070.1	1070.1	1070.1	1070.1	1070.1
2.5°	1071.8	1069.6	1064.5	1070.7	1070.1
5°	1067.9	1065.6	1061.1	1066.8	1065.6
7.5°	1060.6	1057.8	1053.9	1059.5	1057.8
10°	1050.6	1047.8	1043.4	1049.5	1046.7
12.5°	1036.1	1034.4	1030.0	1034.4	1032.8
15°	1020.0	1017.8	1013.9	1017.3	1014.5
17.5°	999.4	997.2	992.8	997.2	993.9
20°	977.2	974.4	968.8	972.2	968.3
22.5°	949.4	946.6	941.6	943.2	939.9
25°	918.8	917.2	910.4	908.8	905.4
27.5°	884.8	882.1	876.0	872.6	866.0
30°	848.7	845.9	836.5	831.0	823.6
32.5°	809.2	804.8	793.6	784.2	773.7
35°	765.8	761.9	748.6	732.4	721.9
37.5°	719.1	716.9	700.2	680.2	671.8
40°	676.3	667.9	650.2	625.7	612.9
42.5°	625.2	619.6	600.7	573.4	557.3
45°	575.6	569.5	545.6	516.1	501.7
47.5°	527.3	520.5	493.3	464.4	447.7
50°	476.7	471.1	443.3	411.0	398.2
52.5°	429.3	422.1	393.2	364.3	353.2
55°	384.3	376.0	349.9	320.9	309.8
57.5°	341.5	331.5	306.4	281.4	274.2
60°	301.4	290.4	265.3	246.9	241.4
62.5°	262.5	254.2	232.0	218.0	214.7
65°	228.6	220.2	200.3	191.8	191.3
67.5°	197.5	189.1	173.5	171.3	172.4
70°	170.8	163.5	150.7	151.8	153.5
72.5°	145.7	139.1	131.2	134.0	137.4
75°	124.6	119.0	112.9	118.5	122.4
77.5°	104.6	99.0	95.6	101.2	105.7
80°	84.0	80.1	79.0	85.1	89.0
82.5°	65.1	61.7	60.1	67.8	69.5
85°	45.0	41.7	41.1	47.9	46.8
87.5°	23.9	21.2	21.2	25.0	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)