

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: P225914

Luminaire Tested: **14GR-LD5-24-A-UNV-L935-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P225914  
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-LD5-24-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: 2083.4 lumens  
Efficiency: N/A  
Efficacy: 99.2 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

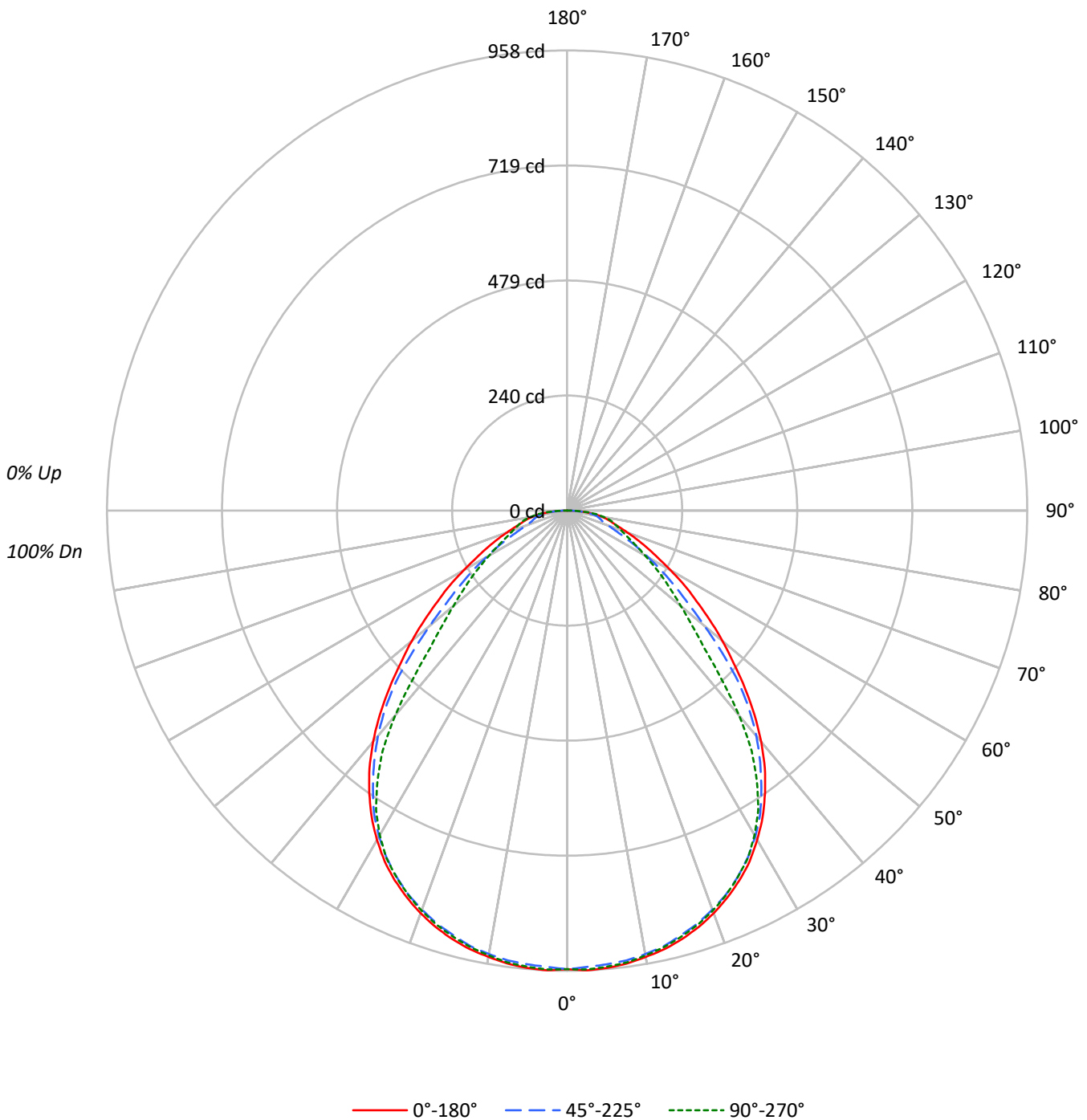
Input Watts (W): 21  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3217	3217	3217
5°	3233	3208	3224
10°	3229	3208	3217
15°	3222	3193	3204
20°	3199	3170	3179
25°	3157	3127	3128
30°	3080	3048	3035
35°	2954	2900	2834
40°	2765	2695	2452
45°	2497	2403	1916
50°	2214	1951	1621
55°	1933	1600	1430
60°	1676	1318	1262
65°	1470	1057	1165
70°	1310	897	1172
75°	1280	945	1310
80°	1418	1193	1502
85°	1477	1272	1759



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.6	4.3
10°-20°	259.5	12.5
20°-30°	388.2	18.6
30°-40°	438.2	21.0
40°-50°	371.7	17.8
50°-60°	251.5	12.1
60°-70°	150.1	7.2
70°-80°	94.0	4.5
80°-90°	39.6	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°	738.2	35.4
0°-40°	1176.4	56.5
0°-60°	1799.6	86.4
0°-90°	2083.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2083.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	955	955	955	955	955	
5°	956	953	948	955	953	91
15°	924	922	915	922	918	260
25°	849	846	841	845	841	390
35°	718	713	705	699	689	447
45°	524	526	504	432	402	404
55°	329	314	272	244	243	296
65°	184	153	133	141	146	184
75°	98	88	73	96	101	106
85°	38	36	33	43	46	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	954.7	954.7	954.7	954.7	954.7
2.5°	958.0	955.1	950.8	956.6	956.2
5°	955.7	952.8	948.4	955.1	953.2
7.5°	951.3	948.9	944.5	950.8	948.9
10°	943.6	941.6	937.7	943.1	940.2
12.5°	935.3	933.9	929.0	933.9	931.0
15°	923.7	921.7	915.4	921.7	918.4
17.5°	909.2	906.8	901.4	906.8	903.9
20°	892.2	889.4	884.0	889.4	886.5
22.5°	871.9	869.6	864.7	869.6	865.6
25°	849.2	846.3	841.0	844.8	841.4
27.5°	823.1	819.2	814.4	817.3	815.3
30°	791.6	786.8	783.4	783.4	780.0
32.5°	757.3	753.9	748.1	744.7	740.4
35°	718.1	713.2	705.0	698.7	689.0
37.5°	676.0	670.1	660.0	644.0	631.0
40°	628.6	621.3	612.6	581.1	557.4
42.5°	577.7	576.3	561.3	507.6	474.6
45°	524.0	526.0	504.2	432.1	402.1
47.5°	469.9	476.6	436.9	366.3	350.8
50°	422.4	424.8	372.1	317.9	309.2
52.5°	373.6	369.7	317.4	279.6	273.4
55°	329.0	313.6	272.4	243.9	243.4
57.5°	289.8	261.3	232.7	211.5	213.9
60°	248.7	216.8	195.5	183.9	187.3
62.5°	212.4	181.9	163.0	159.7	165.5
65°	184.4	152.9	132.6	141.3	146.1
67.5°	157.8	131.2	107.9	128.7	130.6
70°	133.0	113.7	91.0	118.6	119.0
72.5°	112.7	100.6	78.9	107.4	108.9
75°	98.3	87.6	72.6	95.8	100.6
77.5°	86.1	75.0	67.2	82.7	91.0
80°	73.1	60.5	61.5	69.2	77.4
82.5°	56.1	46.9	48.9	57.1	62.9
85°	38.2	36.3	32.9	42.6	45.5
87.5°	20.3	19.4	16.9	24.2	22.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)