

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: P476287

Luminaire Tested: **14GR-LD5-24-A-UNV-L835-CD1-U**

Issue Date: 02/10/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476287  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-24-A-UNV-L835-CD1-U  
Description: GR 1'X4' LED TROFFER w/ A LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

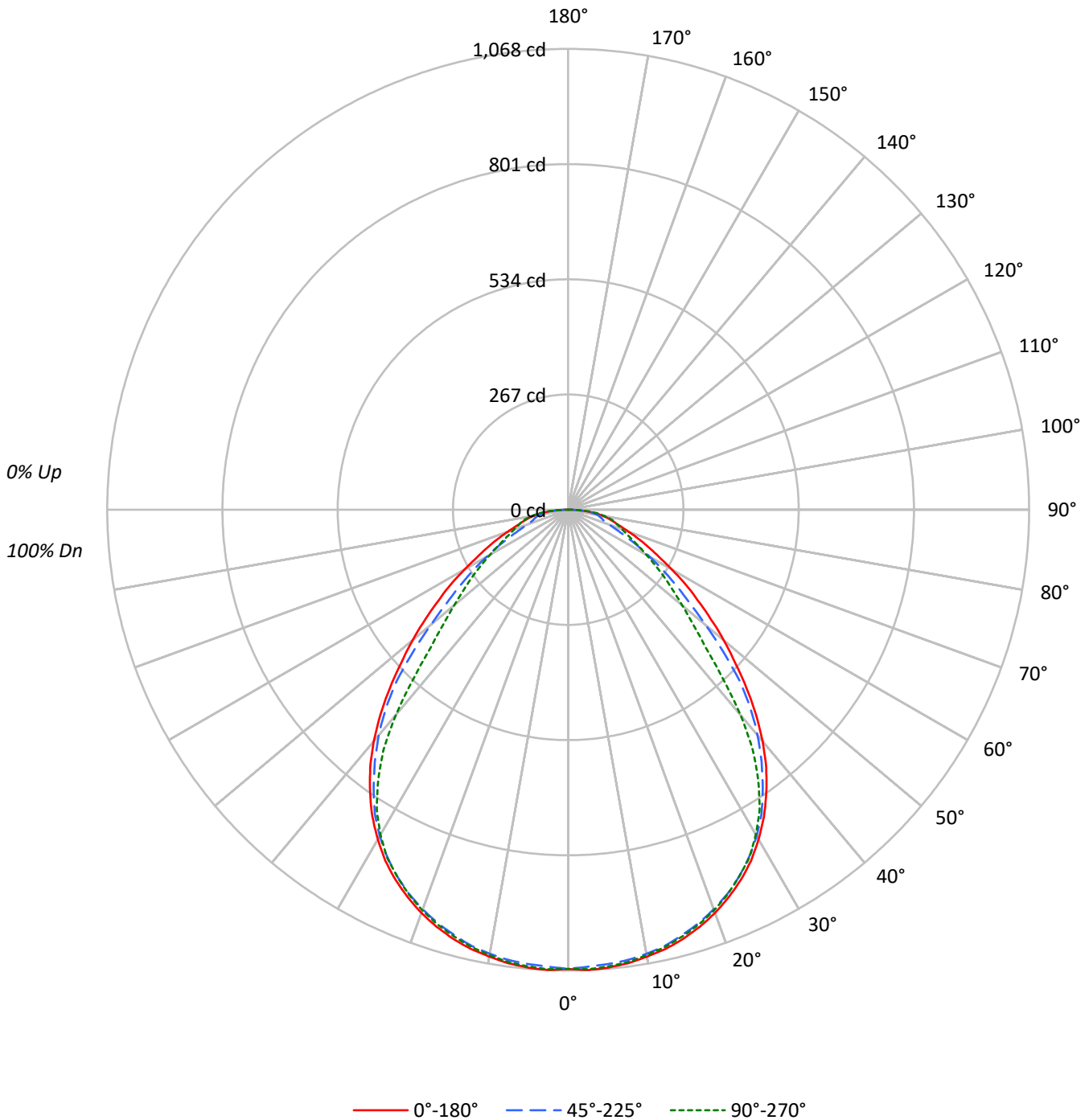
Lumens per Lamp: N/A  
Luminaire Lumens: 2322.2 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 18.5  
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°	3586	3586	3586
5°	3603	3576	3594
10°	3598	3577	3586
15°	3592	3560	3571
20°	3566	3533	3543
25°	3519	3485	3487
30°	3433	3397	3383
35°	3292	3233	3159
40°	3082	3003	2733
45°	2783	2678	2136
50°	2469	2174	1806
55°	2154	1784	1594
60°	1868	1468	1407
65°	1638	1178	1299
70°	1461	999	1307
75°	1426	1055	1461
80°	1580	1329	1675
85°	1647	1419	1960



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.0	4.3
10°-20°	289.2	12.5
20°-30°	432.7	18.6
30°-40°	488.4	21.0
40°-50°	414.3	17.8
50°-60°	280.3	12.1
60°-70°	167.3	7.2
70°-80°	104.8	4.5
80°-90°	44.1	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°	822.9	35.4
0°-40°	1311.3	56.5
0°-60°	2006.0	86.4
0°-90°	2322.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2322.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1065	1062	1057	1065	1062	101
15°	1030	1028	1020	1028	1024	290
25°	946	943	937	942	938	435
35°	800	795	786	779	768	499
45°	584	586	562	482	448	450
55°	367	350	304	272	271	330
65°	206	170	148	158	163	205
75°	110	98	81	107	112	118
85°	43	40	37	47	51	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1064.2	1064.2	1064.2	1064.2	1064.2
2.5°	1067.9	1064.6	1059.8	1066.3	1065.8
5°	1065.2	1062.0	1057.2	1064.6	1062.5
7.5°	1060.3	1057.6	1052.8	1059.8	1057.6
10°	1051.7	1049.6	1045.3	1051.2	1048.0
12.5°	1042.5	1041.0	1035.5	1041.0	1037.7
15°	1029.6	1027.5	1020.5	1027.5	1023.6
17.5°	1013.4	1010.7	1004.8	1010.7	1007.4
20°	994.5	991.4	985.4	991.4	988.1
22.5°	971.9	969.2	963.9	969.2	964.9
25°	946.5	943.4	937.4	941.7	937.9
27.5°	917.4	913.1	907.7	911.0	908.8
30°	882.3	877.0	873.2	873.2	869.4
32.5°	844.1	840.3	833.9	830.0	825.2
35°	800.4	795.0	785.9	778.9	768.0
37.5°	753.5	747.0	735.7	717.8	703.3
40°	700.6	692.5	682.8	647.7	621.4
42.5°	644.0	642.3	625.7	565.8	529.1
45°	584.1	586.3	562.0	481.6	448.2
47.5°	523.7	531.2	487.1	408.3	391.1
50°	470.9	473.5	414.7	354.4	344.6
52.5°	416.4	412.0	353.8	311.7	304.7
55°	366.7	349.5	303.7	271.8	271.3
57.5°	323.0	291.2	259.4	235.7	238.4
60°	277.2	241.6	217.8	204.9	208.8
62.5°	236.7	202.8	181.7	178.0	184.4
65°	205.5	170.4	147.8	157.5	162.9
67.5°	175.8	146.2	120.2	143.5	145.6
70°	148.3	126.7	101.4	132.1	132.7
72.5°	125.7	112.2	87.9	119.8	121.4
75°	109.5	97.6	81.0	106.8	112.2
77.5°	96.0	83.6	75.0	92.3	101.4
80°	81.4	67.4	68.5	77.1	86.3
82.5°	62.6	52.3	54.5	63.6	70.1
85°	42.6	40.4	36.7	47.4	50.7
87.5°	22.6	21.6	18.9	26.9	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)