

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: P476304

Luminaire Tested: **14GR-LD5-20-A-UNV-L850-CD1-U**

Issue Date: 02/10/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476304  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-20-A-UNV-L850-CD1-U  
Description: GR 1'X4' LED TROFFER w/ A LENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

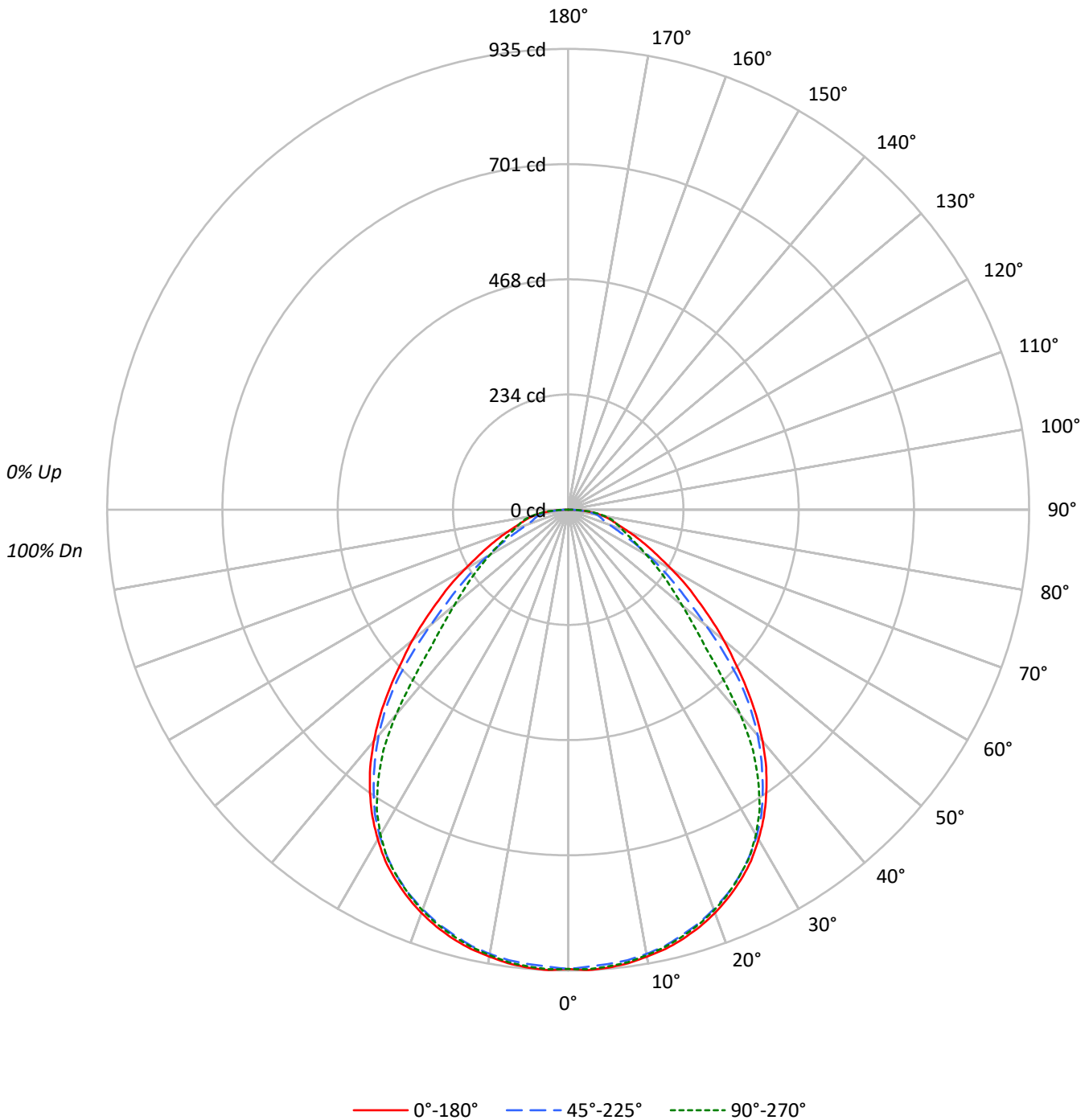
Lumens per Lamp: N/A  
Luminaire Lumens: 2033.2 lumens  
Efficiency: N/A  
Efficacy: 127.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 16  
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°	3140	3140	3140
5°	3154	3131	3147
10°	3151	3131	3140
15°	3145	3117	3127
20°	3123	3094	3102
25°	3081	3051	3053
30°	3006	2975	2962
35°	2883	2830	2766
40°	2698	2630	2393
45°	2437	2345	1870
50°	2161	1903	1582
55°	1886	1562	1395
60°	1636	1285	1232
65°	1434	1032	1138
70°	1280	875	1145
75°	1249	923	1278
80°	1384	1164	1465
85°	1442	1241	1717



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.4	4.3
10°-20°	253.2	12.5
20°-30°	378.8	18.6
30°-40°	427.6	21.0
40°-50°	362.8	17.8
50°-60°	245.5	12.1
60°-70°	146.5	7.2
70°-80°	91.8	4.5
80°-90°	38.6	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°	720.5	35.4
0°-40°	1148.1	56.5
0°-60°	1756.3	86.4
0°-90°	2033.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2033.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	932	932	932	932	932	
5°	933	930	926	932	930	89
15°	902	900	894	900	896	254
25°	829	826	821	824	821	381
35°	701	696	688	682	672	437
45°	511	513	492	422	392	394
55°	321	306	266	238	238	289
65°	180	149	129	138	143	180
75°	96	86	71	94	98	103
85°	37	35	32	42	44	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	931.8	931.8	931.8	931.8	931.8
2.5°	935.0	932.1	927.9	933.6	933.1
5°	932.6	929.9	925.6	932.1	930.3
7.5°	928.4	926.0	921.8	927.9	926.0
10°	920.8	919.0	915.2	920.4	917.6
12.5°	912.8	911.4	906.7	911.4	908.6
15°	901.5	899.6	893.5	899.6	896.3
17.5°	887.3	885.0	879.8	885.0	882.1
20°	870.8	868.0	862.8	868.0	865.1
22.5°	851.0	848.6	843.9	848.6	844.8
25°	828.8	826.0	820.7	824.5	821.2
27.5°	803.3	799.5	794.7	797.6	795.7
30°	772.5	767.9	764.5	764.5	761.2
32.5°	739.0	735.8	730.1	726.7	722.5
35°	700.8	696.1	688.1	681.9	672.4
37.5°	659.7	654.1	644.2	628.5	615.8
40°	613.4	606.3	597.9	567.1	544.0
42.5°	563.9	562.4	547.8	495.4	463.2
45°	511.4	513.3	492.1	421.7	392.5
47.5°	458.5	465.1	426.5	357.5	342.4
50°	412.3	414.6	363.1	310.3	301.8
52.5°	364.6	360.7	309.8	272.9	266.8
55°	321.1	306.0	265.9	238.0	237.5
57.5°	282.8	255.0	227.1	206.4	208.8
60°	242.7	211.5	190.7	179.4	182.8
62.5°	207.3	177.5	159.1	155.8	161.5
65°	179.9	149.2	129.4	137.9	142.7
67.5°	154.0	128.0	105.3	125.6	127.5
70°	129.9	110.9	88.8	115.7	116.2
72.5°	110.0	98.2	76.9	104.9	106.3
75°	95.9	85.5	70.9	93.5	98.2
77.5°	84.1	73.2	65.6	80.8	88.8
80°	71.3	59.0	60.0	67.5	75.5
82.5°	54.8	45.8	47.7	55.7	61.4
85°	37.3	35.4	32.1	41.5	44.4
87.5°	19.8	18.9	16.6	23.6	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)