

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: P476250

Luminaire Tested: **14GR-LD5-20-A19/156-UNV-L835-CD1-U**

Issue Date: 02/10/2021



Test Information

Test Method: LM-79-08
Report Number: P476250
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-A19/156-UNV-L835-CD1-U
Description: GR 1'X4' LED TROFFER w/ A19/156 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

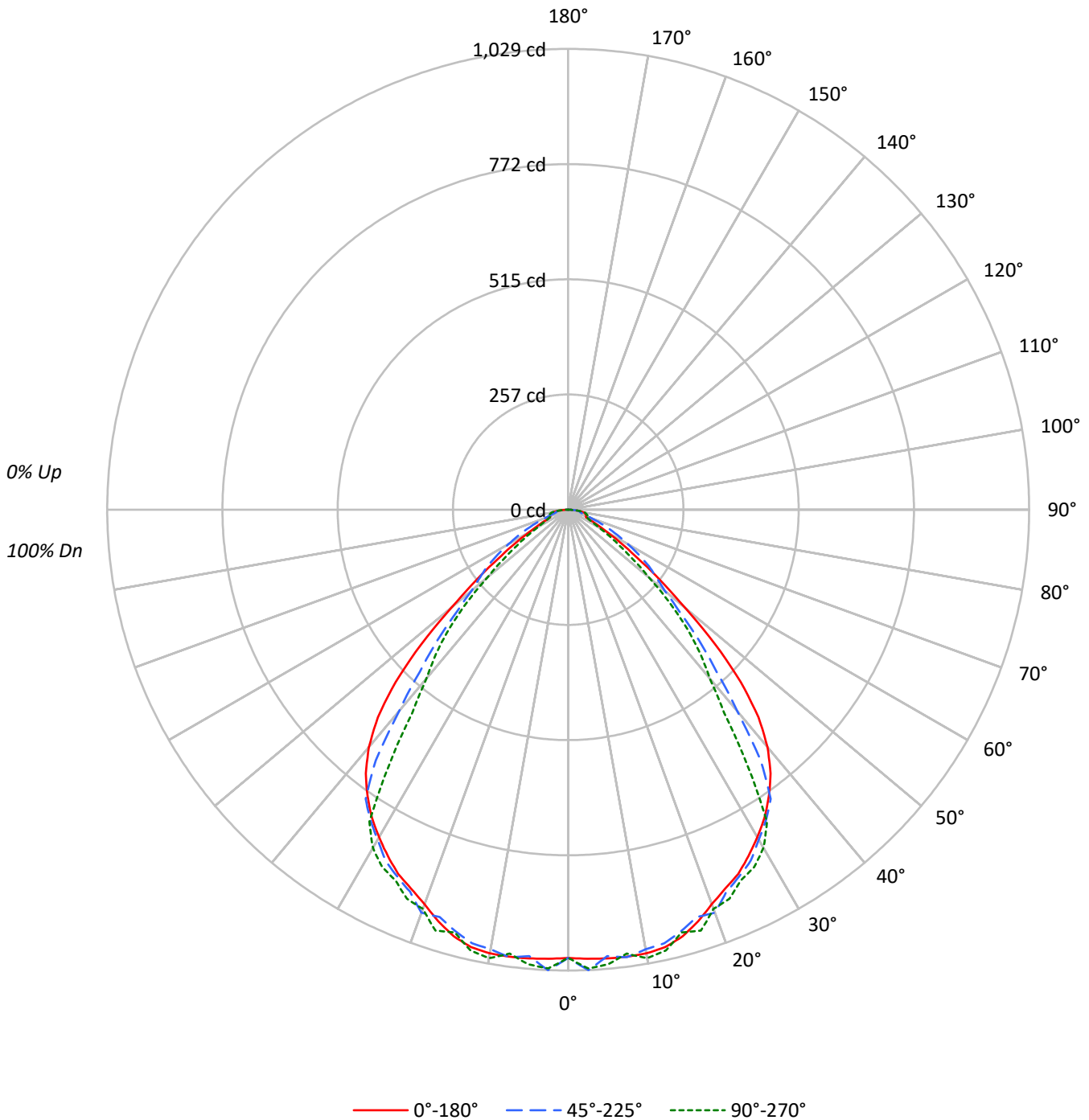
Lumens per Lamp: N/A
Luminaire Lumens: 1952.7 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.2
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	79	78
3	96	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	50	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44
8	67	55	48	42	66	55	47	42	53	47	42	52	46	42	51	46	42	40
9	63	51	44	39	62	51	43	39	49	43	38	48	43	38	48	42	38	36
10	60	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2693	2693	2693
5°	2717	2703	2753
10°	2748	2723	2779
15°	2748	2714	2722
20°	2684	2743	2716
25°	2665	2683	2710
30°	2623	2642	2709
35°	2565	2589	2297
40°	2431	2061	1727
45°	2073	1571	1431
50°	1416	1177	988
55°	892	1031	657
60°	539	825	424
65°	339	638	325
70°	338	426	346
75°	425	340	446
80°	555	412	586
85°	537	568	568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.5	4.9
10°-20°	276.7	14.2
20°-30°	417.6	21.4
30°-40°	465.8	23.9
40°-50°	338.7	17.3
50°-60°	185.8	9.5
60°-70°	94.5	4.8
70°-80°	55.5	2.8
80°-90°	21.5	1.1
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°	790.9	40.5
0°-40°	1256.7	64.4
0°-60°	1781.2	91.2
0°-90°	1952.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1952.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1001	1001	1001	1001	1001	
5°	1006	1027	1001	1019	1019	96
15°	986	982	974	994	977	277
25°	897	897	904	921	913	413
35°	781	780	788	735	699	486
45°	545	503	413	383	376	409
55°	190	235	220	196	140	179
65°	53	114	100	103	51	59
75°	41	73	33	65	43	43
85°	17	22	18	24	18	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1000.7	1000.7	1000.7	1000.7	1000.7
2.5°	1003.7	1024.2	1029.3	1029.3	1025.2
5°	1005.8	1027.2	1000.7	1019.1	1019.1
7.5°	1006.8	1009.9	1007.8	1011.9	999.6
10°	1005.8	998.6	996.6	1022.1	1017.0
12.5°	1000.7	973.1	991.5	983.3	1007.8
15°	986.3	982.3	974.1	994.5	977.1
17.5°	963.9	965.9	953.6	963.9	985.3
20°	937.3	946.5	957.7	960.8	948.5
22.5°	915.8	918.9	923.0	933.2	940.4
25°	897.4	897.4	903.6	920.9	912.8
27.5°	871.9	873.9	883.1	888.2	899.5
30°	844.3	846.3	850.4	873.9	871.9
32.5°	815.7	817.7	821.8	837.1	825.9
35°	780.9	779.9	788.1	734.9	699.1
37.5°	742.1	741.0	705.3	605.1	571.4
40°	692.0	687.9	586.7	508.0	491.6
42.5°	628.6	611.2	490.6	444.6	436.4
45°	544.8	502.9	412.9	383.3	376.1
47.5°	445.6	414.0	336.3	323.0	305.6
50°	338.3	340.4	281.1	271.9	236.1
52.5°	258.6	283.1	247.4	230.0	183.0
55°	190.1	235.1	219.8	196.2	140.0
57.5°	141.1	195.2	186.0	168.6	107.3
60°	100.2	162.5	153.3	145.1	78.7
62.5°	72.6	135.9	125.7	122.7	60.3
65°	53.2	113.5	100.2	103.2	51.1
67.5°	42.9	95.1	75.6	89.9	44.0
70°	42.9	84.8	54.2	79.7	44.0
72.5°	42.9	79.7	42.9	72.6	46.0
75°	40.9	72.6	32.7	65.4	42.9
77.5°	37.8	59.3	27.6	56.2	40.9
80°	35.8	44.0	26.6	44.0	37.8
82.5°	27.6	30.7	24.5	32.7	29.6
85°	17.4	22.5	18.4	23.5	18.4
87.5°	8.2	12.3	8.2	12.3	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)