

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: P476323

Luminaire Tested: **14GR-LD5-24-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021



Test Information

Test Method: LM-79-08
Report Number: P476323
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-24-A125-UNV-L835-CD1-U
Description: GR 1'X4' LED TROFFER w/ A125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

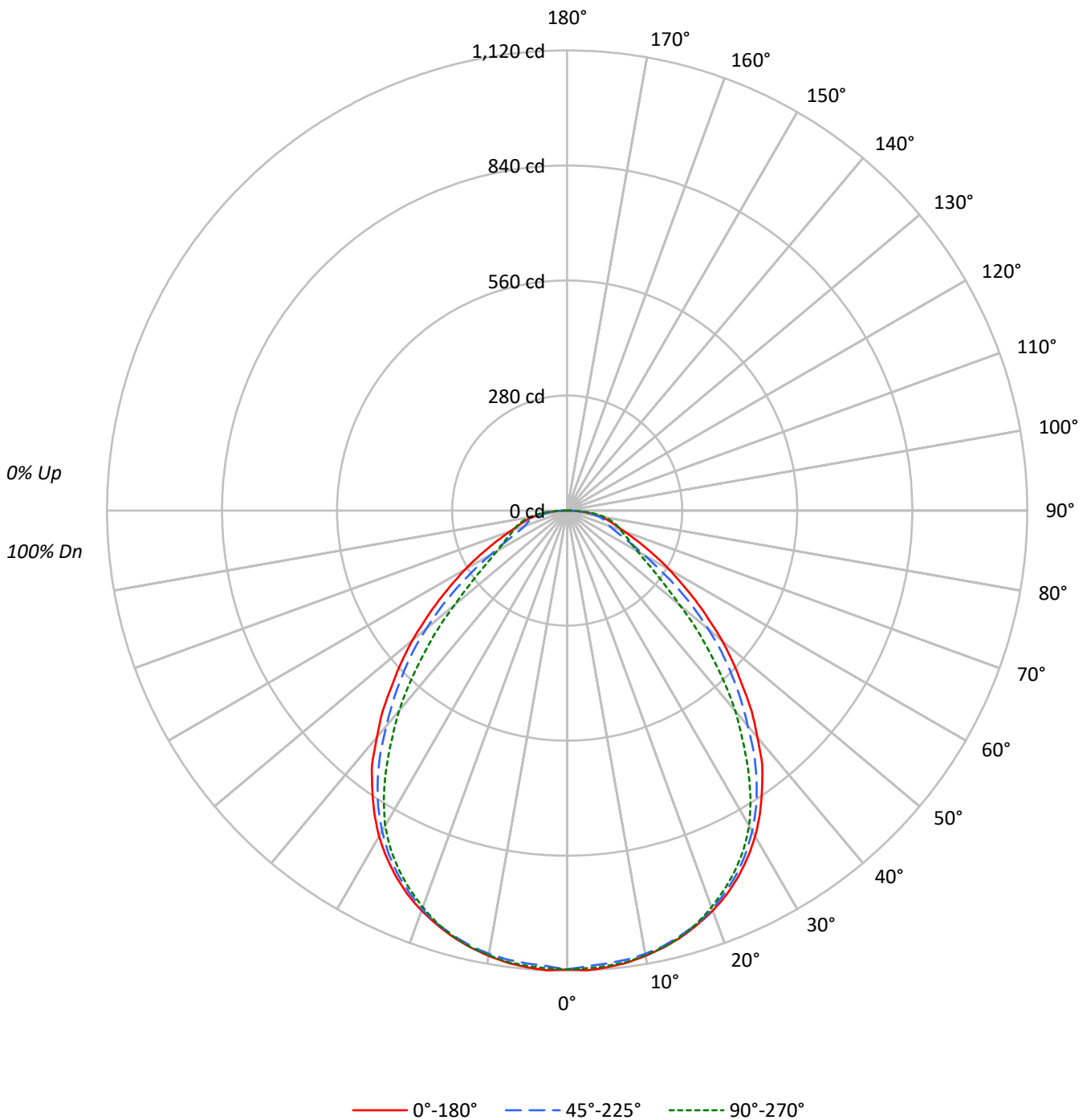
Lumens per Lamp: N/A
Luminaire Lumens: 2403.7 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64					64			
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	54	48	72	61	53	48	59	52	47	58	51	47	56	51	46	44					44			
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	39	63	51	44	38	50	43	38	49	43	38	48	42	38	36					36			
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34	33					33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3005	3005	3005
5°	3015	2989	3004
10°	3007	2993	3002
15°	2993	2981	2988
20°	2967	2956	2942
25°	2922	2899	2871
30°	2845	2800	2753
35°	2718	2643	2523
40°	2529	2402	2237
45°	2298	2160	1875
50°	2058	1876	1494
55°	1787	1530	1213
60°	1542	1158	1058
65°	1319	925	1039
70°	1164	862	1090
75°	1161	988	1242
80°	1255	1151	1429
85°	1346	1226	1639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.7	4.4
10°-20°	302.5	12.6
20°-30°	448.9	18.7
30°-40°	498.5	20.7
40°-50°	429.9	17.9
50°-60°	291.5	12.1
60°-70°	168.6	7.0
70°-80°	110.1	4.6
80°-90°	48.0	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°	857.1	35.7
0°-40°	1355.6	56.4
0°-60°	2077.0	86.4
0°-90°	2403.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2403.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1117	1117	1117	1117	1117	
5°	1116	1112	1106	1114	1112	106
15°	1074	1072	1070	1078	1072	303
25°	984	983	976	974	967	452
35°	827	819	804	782	768	516
45°	604	594	568	521	493	467
55°	381	373	326	278	259	342
65°	207	184	145	149	163	208
75°	112	101	95	106	120	119
85°	44	42	40	55	53	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1116.6	1116.6	1116.6	1116.6	1116.6
2.5°	1120.0	1116.0	1109.9	1116.6	1114.9
5°	1116.0	1111.6	1106.5	1114.4	1112.1
7.5°	1109.9	1105.4	1102.6	1109.3	1108.2
10°	1100.4	1097.1	1095.4	1103.8	1098.7
12.5°	1088.7	1085.9	1085.3	1092.0	1088.1
15°	1074.2	1071.9	1070.2	1077.5	1072.5
17.5°	1056.3	1055.2	1054.0	1057.4	1052.9
20°	1036.2	1035.1	1032.3	1032.8	1027.2
22.5°	1012.7	1011.6	1006.0	1004.9	998.7
25°	984.2	983.1	976.4	973.6	966.9
27.5°	951.8	952.4	941.2	936.2	930.0
30°	915.5	913.3	901.0	892.6	885.9
32.5°	873.1	870.3	855.7	842.3	830.6
35°	827.3	819.4	804.4	782.0	768.0
37.5°	780.3	769.7	747.4	718.9	700.5
40°	720.0	708.8	683.7	651.3	636.8
42.5°	665.8	654.1	626.2	588.2	565.3
45°	603.8	594.3	567.5	520.6	492.7
47.5°	547.4	537.4	510.0	454.7	427.3
50°	491.6	480.4	448.0	388.2	356.9
52.5°	433.5	427.3	387.7	327.9	302.8
55°	381.0	373.1	326.2	277.6	258.6
57.5°	330.7	317.8	267.0	230.7	223.4
60°	286.6	268.7	215.1	194.9	196.6
62.5°	244.7	223.4	176.5	167.0	176.5
65°	207.2	183.8	145.2	148.6	163.1
67.5°	174.3	151.9	123.4	136.9	149.1
70°	148.0	129.6	109.5	124.6	138.5
72.5°	126.8	114.5	102.8	114.5	129.6
75°	111.7	101.1	95.0	106.1	119.5
77.5°	97.8	89.4	86.6	95.5	106.7
80°	81.0	77.1	74.3	86.0	92.2
82.5°	62.6	60.9	58.7	73.2	76.0
85°	43.6	42.5	39.7	55.3	53.1
87.5°	22.9	21.8	20.1	29.0	26.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)