

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: P476332

Luminaire Tested: **14GR-LD5-24-A125-UNV-L840-CD1-U**

Issue Date: 02/10/2021



Test Information

Test Method: LM-79-08
Report Number: P476332
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-L840-CD1-U
Description: GR 1'X4' LED TROFFER w/ A125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

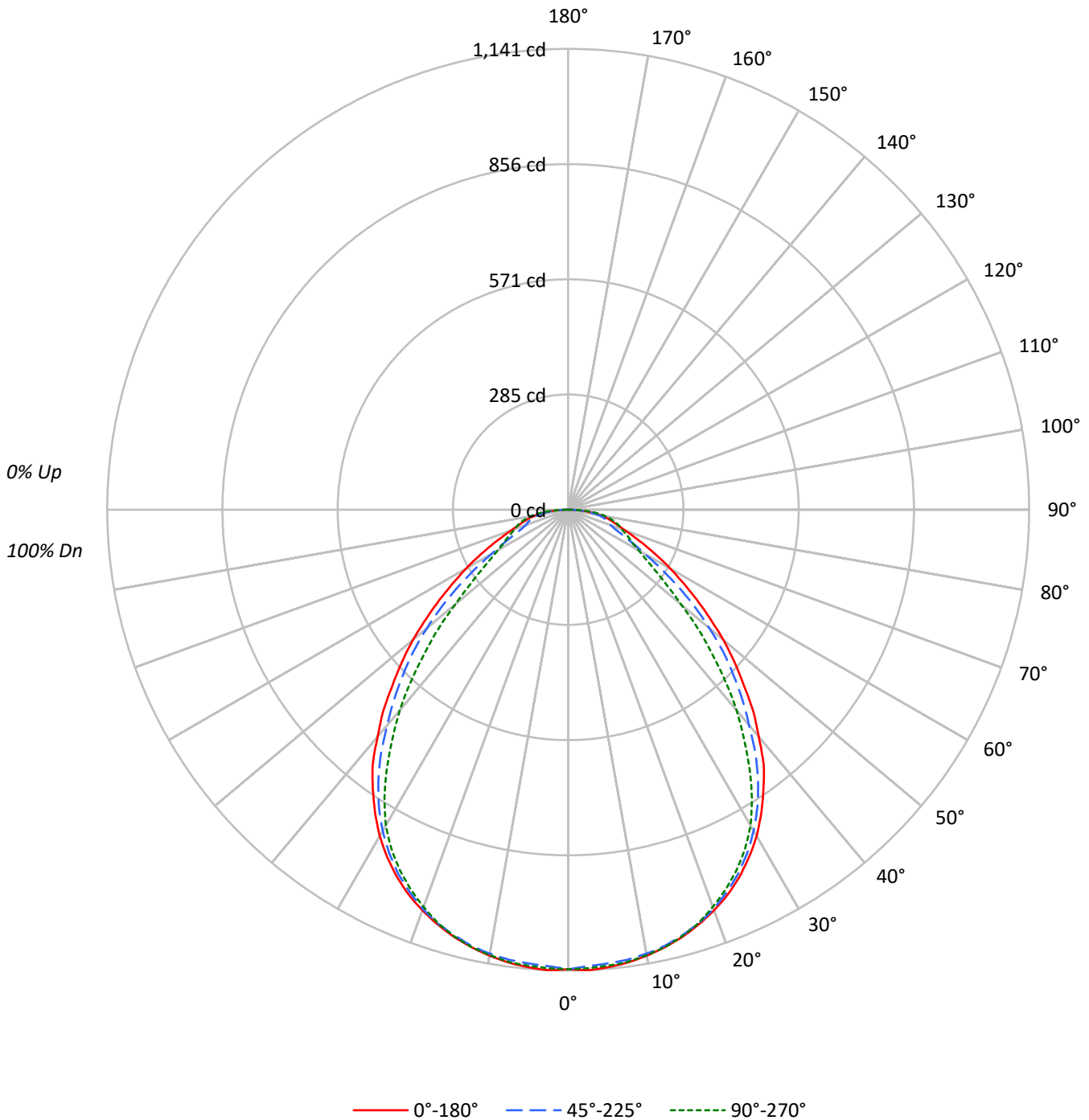
Lumens per Lamp: N/A
Luminaire Lumens: 2449.3 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	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	73	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	48	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	40	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	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3062	3062	3062
5°	3072	3046	3061
10°	3064	3050	3059
15°	3049	3038	3045
20°	3024	3012	2997
25°	2978	2954	2926
30°	2899	2853	2805
35°	2769	2692	2571
40°	2577	2447	2279
45°	2342	2201	1910
50°	2097	1911	1523
55°	1821	1559	1236
60°	1572	1179	1079
65°	1345	942	1058
70°	1186	878	1111
75°	1183	1006	1266
80°	1278	1173	1455
85°	1371	1247	1670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	4.4
10°-20°	308.3	12.6
20°-30°	457.4	18.7
30°-40°	507.9	20.7
40°-50°	438.1	17.9
50°-60°	297.1	12.1
60°-70°	171.8	7.0
70°-80°	112.1	4.6
80°-90°	48.9	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°	873.4	35.7
0°-40°	1381.4	56.4
0°-60°	2116.5	86.4
0°-90°	2449.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2449.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1138	1138	1138	1138	1138	
5°	1137	1133	1128	1136	1133	108
15°	1095	1092	1091	1098	1093	309
25°	1003	1002	995	992	985	461
35°	843	835	820	797	783	525
45°	615	606	578	530	502	476
55°	388	380	332	283	264	349
65°	211	187	148	151	166	212
75°	114	103	97	108	122	121
85°	44	43	40	56	54	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1137.8	1137.8	1137.8	1137.8	1137.8
2.5°	1141.2	1137.3	1131.0	1137.8	1136.1
5°	1137.3	1132.7	1127.6	1135.5	1133.3
7.5°	1131.0	1126.4	1123.6	1130.4	1129.3
10°	1121.3	1117.9	1116.2	1124.7	1119.6
12.5°	1109.4	1106.5	1105.9	1112.8	1108.8
15°	1094.6	1092.3	1090.6	1098.0	1092.9
17.5°	1076.3	1075.2	1074.1	1077.5	1072.9
20°	1055.9	1054.7	1051.9	1052.4	1046.7
22.5°	1031.9	1030.8	1025.1	1024.0	1017.7
25°	1002.9	1001.8	995.0	992.1	985.3
27.5°	969.9	970.5	959.1	954.0	947.7
30°	932.9	930.6	918.1	909.6	902.7
32.5°	889.7	886.8	872.0	858.3	846.4
35°	843.0	835.0	819.6	796.9	782.6
37.5°	795.2	784.4	761.6	732.6	713.8
40°	733.7	722.3	696.7	663.7	648.9
42.5°	678.5	666.5	638.1	599.4	576.0
45°	615.3	605.6	578.3	530.5	502.0
47.5°	557.8	547.6	519.7	463.3	435.4
50°	500.9	489.5	456.5	395.6	363.7
52.5°	441.7	435.4	395.0	334.1	308.5
55°	388.2	380.2	332.4	282.9	263.5
57.5°	337.0	323.9	272.1	235.1	227.7
60°	292.0	273.8	219.1	198.6	200.4
62.5°	249.3	227.7	179.9	170.2	179.9
65°	211.2	187.3	148.0	151.4	166.2
67.5°	177.6	154.8	125.8	139.5	152.0
70°	150.8	132.1	111.6	126.9	141.2
72.5°	129.2	116.7	104.7	116.7	132.1
75°	113.8	103.0	96.8	108.1	121.8
77.5°	99.6	91.1	88.2	97.3	108.7
80°	82.5	78.5	75.7	87.7	93.9
82.5°	63.7	62.0	59.8	74.6	77.4
85°	44.4	43.3	40.4	56.4	54.1
87.5°	23.3	22.2	20.5	29.6	26.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)