

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: P476331

Luminaire Tested: **14GR-LD5-20-A125-UNV-L840-CD1-U**

Issue Date: 02/10/2021



Test Information

Test Method: LM-79-08
Report Number: P476331
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-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

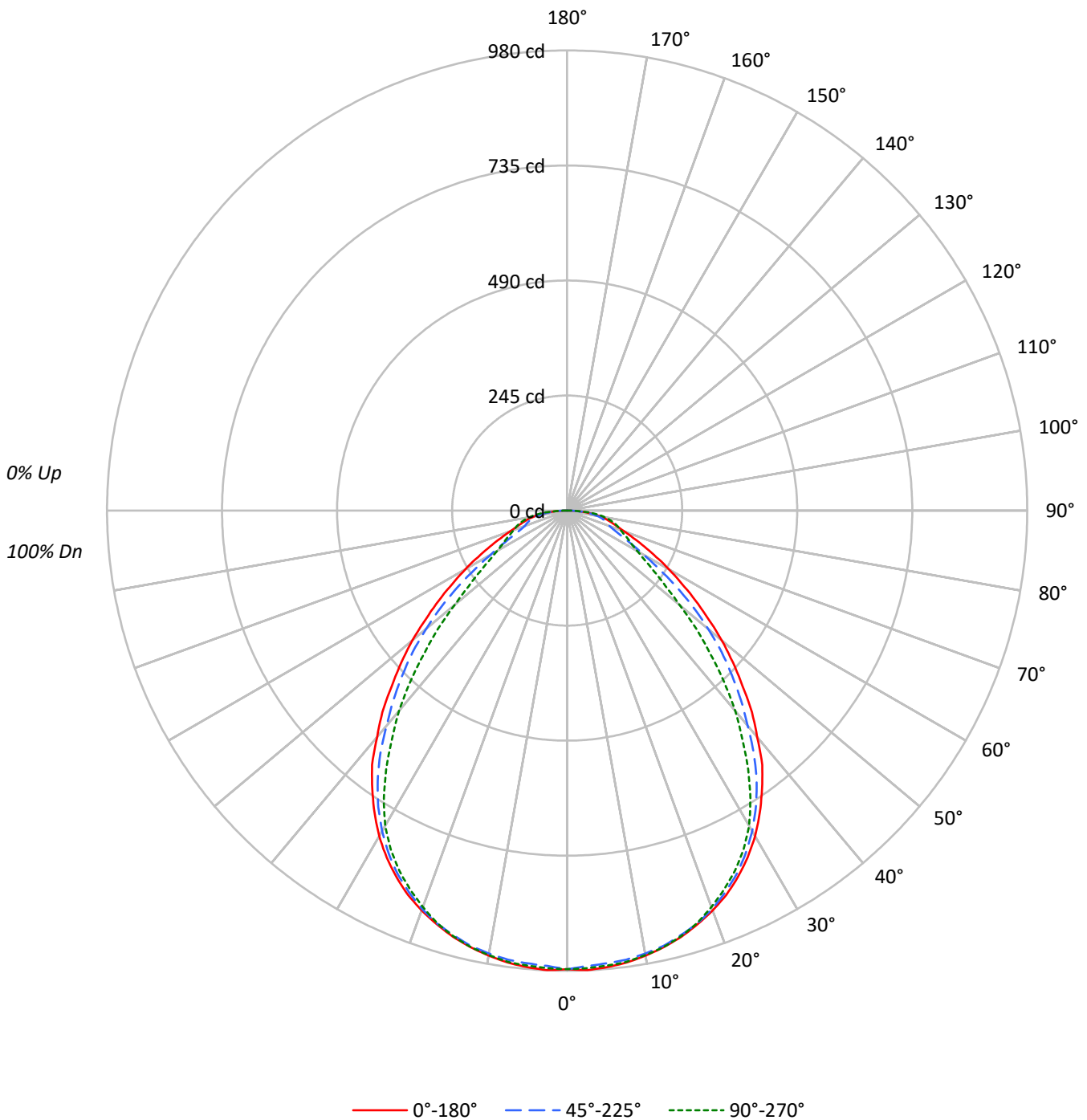
Lumens per Lamp: N/A
Luminaire Lumens: 2102.5 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	2628	2628	2628
5°	2637	2615	2628
10°	2630	2618	2626
15°	2618	2608	2613
20°	2595	2586	2573
25°	2556	2536	2511
30°	2488	2449	2408
35°	2377	2311	2207
40°	2212	2101	1957
45°	2010	1889	1640
50°	1800	1641	1307
55°	1563	1339	1061
60°	1349	1012	926
65°	1154	809	909
70°	1019	754	954
75°	1016	864	1088
80°	1097	1007	1249
85°	1176	1071	1433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	4.4
10°-20°	264.6	12.6
20°-30°	392.6	18.7
30°-40°	436.0	20.7
40°-50°	376.0	17.9
50°-60°	255.0	12.1
60°-70°	147.5	7.0
70°-80°	96.3	4.6
80°-90°	42.0	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°	749.7	35.7
0°-40°	1185.8	56.4
0°-60°	1816.8	86.4
0°-90°	2102.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2102.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	977	977	977	977	977	
5°	976	972	968	975	973	93
15°	940	938	936	942	938	265
25°	861	860	854	852	846	396
35°	724	717	704	684	672	451
45°	528	520	496	455	431	408
55°	333	326	285	243	226	299
65°	181	161	127	130	143	182
75°	98	88	83	93	105	104
85°	38	37	35	48	46	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	976.7	976.7	976.7	976.7	976.7
2.5°	979.6	976.2	970.8	976.7	975.2
5°	976.2	972.3	967.9	974.7	972.8
7.5°	970.8	966.9	964.5	970.3	969.4
10°	962.5	959.6	958.1	965.5	961.1
12.5°	952.3	949.8	949.3	955.2	951.8
15°	939.6	937.6	936.1	942.5	938.1
17.5°	923.9	923.0	922.0	924.9	921.0
20°	906.3	905.4	902.9	903.4	898.5
22.5°	885.8	884.8	880.0	879.0	873.6
25°	860.9	859.9	854.1	851.6	845.8
27.5°	832.6	833.1	823.3	818.9	813.5
30°	800.8	798.9	788.1	780.8	774.9
32.5°	763.7	761.2	748.5	736.8	726.5
35°	723.6	716.8	703.6	684.0	671.8
37.5°	682.6	673.3	653.7	628.8	612.7
40°	629.8	620.0	598.0	569.7	557.0
42.5°	582.4	572.1	547.7	514.5	494.5
45°	528.2	519.9	496.4	455.4	430.9
47.5°	478.8	470.0	446.1	397.7	373.8
50°	430.0	420.2	391.9	339.6	312.2
52.5°	379.1	373.8	339.1	286.8	264.8
55°	333.2	326.4	285.3	242.8	226.2
57.5°	289.2	278.0	233.5	201.8	195.4
60°	250.6	235.0	188.1	170.5	172.0
62.5°	214.0	195.4	154.4	146.1	154.4
65°	181.3	160.7	127.0	130.0	142.7
67.5°	152.4	132.9	108.0	119.7	130.5
70°	129.5	113.4	95.8	109.0	121.2
72.5°	110.9	100.2	89.9	100.2	113.4
75°	97.7	88.4	83.1	92.8	104.6
77.5°	85.5	78.2	75.7	83.5	93.3
80°	70.8	67.4	65.0	75.2	80.6
82.5°	54.7	53.3	51.3	64.0	66.4
85°	38.1	37.1	34.7	48.4	46.4
87.5°	20.0	19.1	17.6	25.4	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)