

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: P476313

Luminaire Tested: **14GR-LD5-20-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021



Test Information

Test Method: LM-79-08
Report Number: P476313
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-L830-CD1-U
Description: GR 1'X4' LED TROFFER w/ A125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

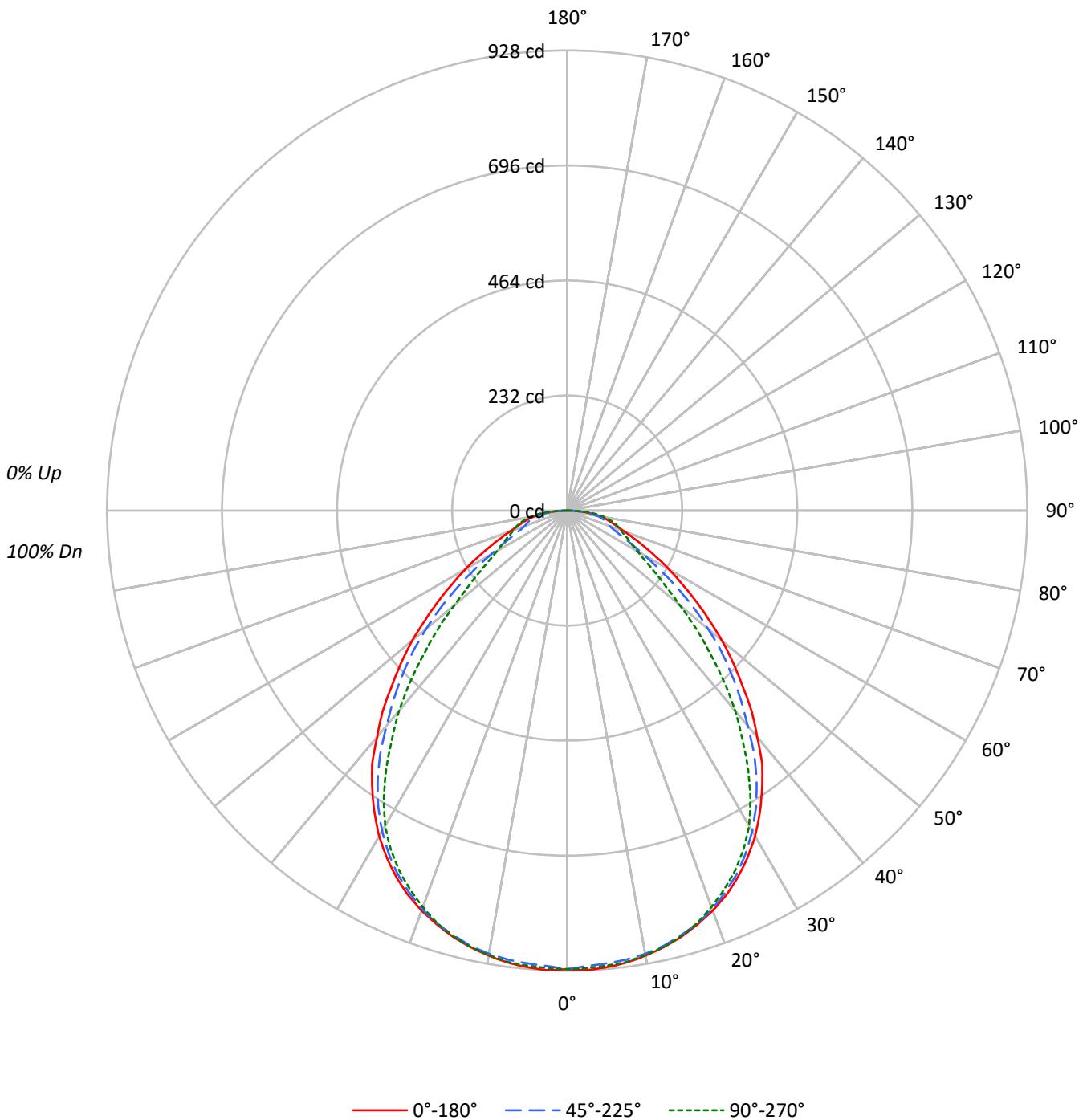
Lumens per Lamp: N/A
Luminaire Lumens: 1991.1 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	2489	2489	2489
5°	2497	2476	2488
10°	2491	2479	2487
15°	2479	2470	2475
20°	2458	2449	2437
25°	2421	2401	2378
30°	2357	2319	2280
35°	2251	2189	2090
40°	2095	1989	1853
45°	1904	1789	1553
50°	1705	1554	1238
55°	1481	1268	1005
60°	1278	959	877
65°	1093	766	860
70°	965	714	903
75°	962	818	1029
80°	1040	953	1182
85°	1115	1016	1359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	4.4
10°-20°	250.6	12.6
20°-30°	371.8	18.7
30°-40°	412.9	20.7
40°-50°	356.1	17.9
50°-60°	241.5	12.1
60°-70°	139.7	7.0
70°-80°	91.2	4.6
80°-90°	39.8	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°	710.0	35.7
0°-40°	1122.9	56.4
0°-60°	1720.5	86.4
0°-90°	1991.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1991.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	925	925	925	925	925	
5°	924	921	917	923	921	88
15°	890	888	886	893	888	251
25°	815	814	809	806	801	375
35°	685	679	666	648	636	427
45°	500	492	470	431	408	387
55°	316	309	270	230	214	284
65°	172	152	120	123	135	173
75°	92	84	79	88	99	99
85°	36	35	33	46	44	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	924.9	924.9	924.9	924.9	924.9
2.5°	927.7	924.5	919.4	924.9	923.6
5°	924.5	920.8	916.6	923.1	921.2
7.5°	919.4	915.7	913.4	918.9	918.0
10°	911.5	908.7	907.4	914.3	910.1
12.5°	901.8	899.5	899.0	904.6	901.3
15°	889.8	887.9	886.5	892.6	888.4
17.5°	875.0	874.0	873.1	875.9	872.2
20°	858.3	857.4	855.1	855.5	850.9
22.5°	838.9	838.0	833.3	832.4	827.3
25°	815.3	814.4	808.8	806.5	800.9
27.5°	788.4	788.9	779.7	775.5	770.4
30°	758.4	756.5	746.3	739.4	733.8
32.5°	723.2	720.9	708.9	697.8	688.0
35°	685.3	678.8	666.3	647.8	636.2
37.5°	646.4	637.6	619.1	595.5	580.2
40°	596.4	587.2	566.3	539.5	527.5
42.5°	551.5	541.8	518.7	487.2	468.3
45°	500.2	492.3	470.1	431.2	408.1
47.5°	453.4	445.1	422.4	376.6	354.0
50°	407.2	397.9	371.1	321.6	295.7
52.5°	359.1	354.0	321.1	271.6	250.8
55°	315.6	309.1	270.2	230.0	214.2
57.5°	273.9	263.3	221.2	191.1	185.1
60°	237.4	222.6	178.1	161.5	162.9
62.5°	202.7	185.1	146.2	138.3	146.2
65°	171.7	152.2	120.3	123.1	135.1
67.5°	144.4	125.9	102.3	113.4	123.5
70°	122.6	107.3	90.7	103.2	114.8
72.5°	105.0	94.9	85.1	94.9	107.3
75°	92.5	83.7	78.7	87.9	99.0
77.5°	81.0	74.0	71.7	79.1	88.4
80°	67.1	63.9	61.5	71.3	76.3
82.5°	51.8	50.4	48.6	60.6	62.9
85°	36.1	35.2	32.9	45.8	44.0
87.5°	19.0	18.0	16.7	24.1	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)