

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: P476206

Luminaire Tested: **14GR-LD5-24-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021



Test Information

Test Method: LM-79-08
Report Number: P476206
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-24-F125-UNV-L830-CD1-U
Description: GR 1'X4' LED TROFFER w/ F125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

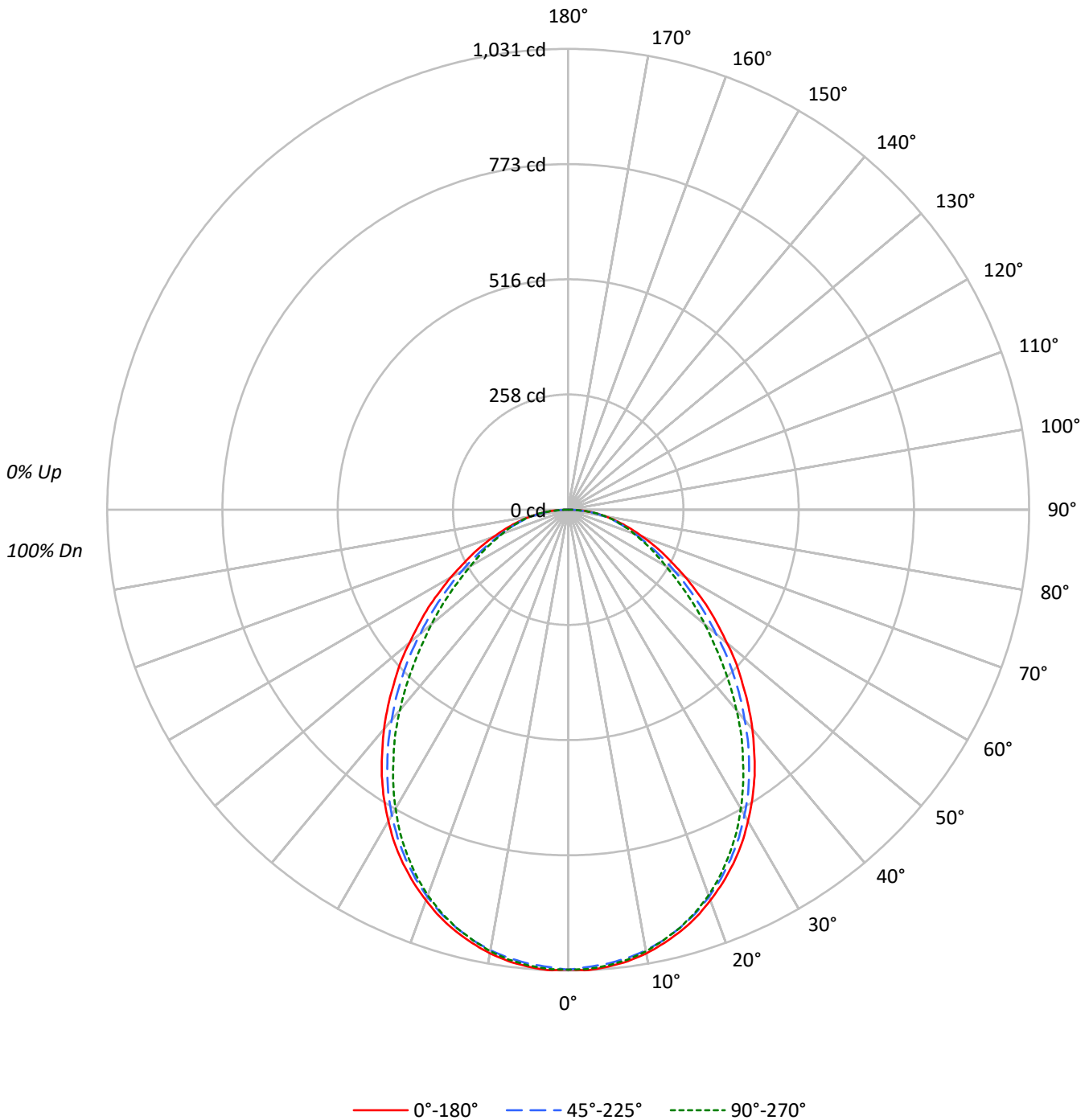
Lumens per Lamp: N/A
Luminaire Lumens: 2310.3 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.13 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	48	44
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	50	44	40
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2769	2769	2769
5°	2773	2754	2764
10°	2754	2735	2741
15°	2718	2696	2696
20°	2664	2638	2629
25°	2594	2556	2530
30°	2499	2450	2399
35°	2387	2318	2238
40°	2252	2158	2057
45°	2100	1991	1856
50°	1940	1806	1670
55°	1790	1636	1503
60°	1633	1479	1357
65°	1501	1343	1282
70°	1393	1256	1231
75°	1330	1220	1241
80°	1302	1229	1294
85°	1337	1207	1291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.1	4.2
10°-20°	273.3	11.8
20°-30°	396.5	17.2
30°-40°	440.2	19.1
40°-50°	402.7	17.4
50°-60°	313.7	13.6
60°-70°	214.3	9.3
70°-80°	128.0	5.5
80°-90°	44.5	1.9
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°	766.8	33.2
0°-40°	1207.0	52.2
0°-60°	1923.4	83.3
0°-90°	2310.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2310.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1029	1029	1029	1029	1029	
5°	1026	1024	1020	1025	1023	97
15°	976	973	968	971	968	275
25°	874	870	861	858	852	402
35°	727	720	706	691	681	453
45°	552	544	523	499	488	426
55°	382	370	349	328	320	341
65°	236	227	211	201	201	235
75°	128	123	117	119	119	136
85°	43	41	39	43	42	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1029.1	1029.1	1029.1	1029.1	1029.1
2.5°	1031.2	1028.5	1023.8	1029.1	1028.5
5°	1026.4	1024.3	1019.5	1024.8	1023.2
7.5°	1019.0	1016.9	1011.6	1017.4	1015.3
10°	1007.9	1005.3	1001.0	1005.3	1003.2
12.5°	993.1	990.5	986.2	989.9	986.2
15°	975.7	973.0	967.7	971.4	967.7
17.5°	955.1	951.4	947.1	947.7	944.5
20°	930.2	926.5	921.2	921.2	918.1
22.5°	903.3	899.6	893.2	891.1	886.9
25°	873.7	870.0	861.0	858.3	852.0
27.5°	841.4	835.6	826.6	820.8	814.5
30°	804.4	799.7	788.6	780.1	772.2
32.5°	766.9	762.1	749.5	736.8	728.3
35°	726.7	720.4	705.6	690.8	681.3
37.5°	683.4	678.1	661.2	643.2	635.8
40°	641.1	634.2	614.2	595.7	585.6
42.5°	596.7	589.3	569.2	548.1	537.0
45°	551.8	544.4	523.2	498.9	487.8
47.5°	510.0	500.5	478.3	454.0	440.8
50°	463.5	455.6	431.3	408.0	399.0
52.5°	420.2	412.8	390.1	367.3	358.9
55°	381.6	370.0	348.8	328.2	320.3
57.5°	340.4	330.9	310.8	291.2	283.3
60°	303.4	296.0	274.8	257.9	252.1
62.5°	266.9	261.1	241.5	228.9	225.2
65°	235.7	226.7	210.9	201.4	201.4
67.5°	206.1	197.1	183.4	179.7	176.5
70°	177.1	170.2	159.6	156.4	156.4
72.5°	151.2	145.3	137.9	136.9	139.0
75°	127.9	122.6	117.3	119.4	119.4
77.5°	104.6	100.9	98.8	99.9	102.0
80°	84.0	81.4	79.3	81.9	83.5
82.5°	64.5	61.8	60.3	64.0	63.4
85°	43.3	41.2	39.1	42.8	41.8
87.5°	21.7	20.6	16.9	19.0	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)