

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: P476208

Luminaire Tested: **14GR-LD5-32-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476208
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-32-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: 3138.3 lumens
Efficiency: N/A
Efficacy: 125.5 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

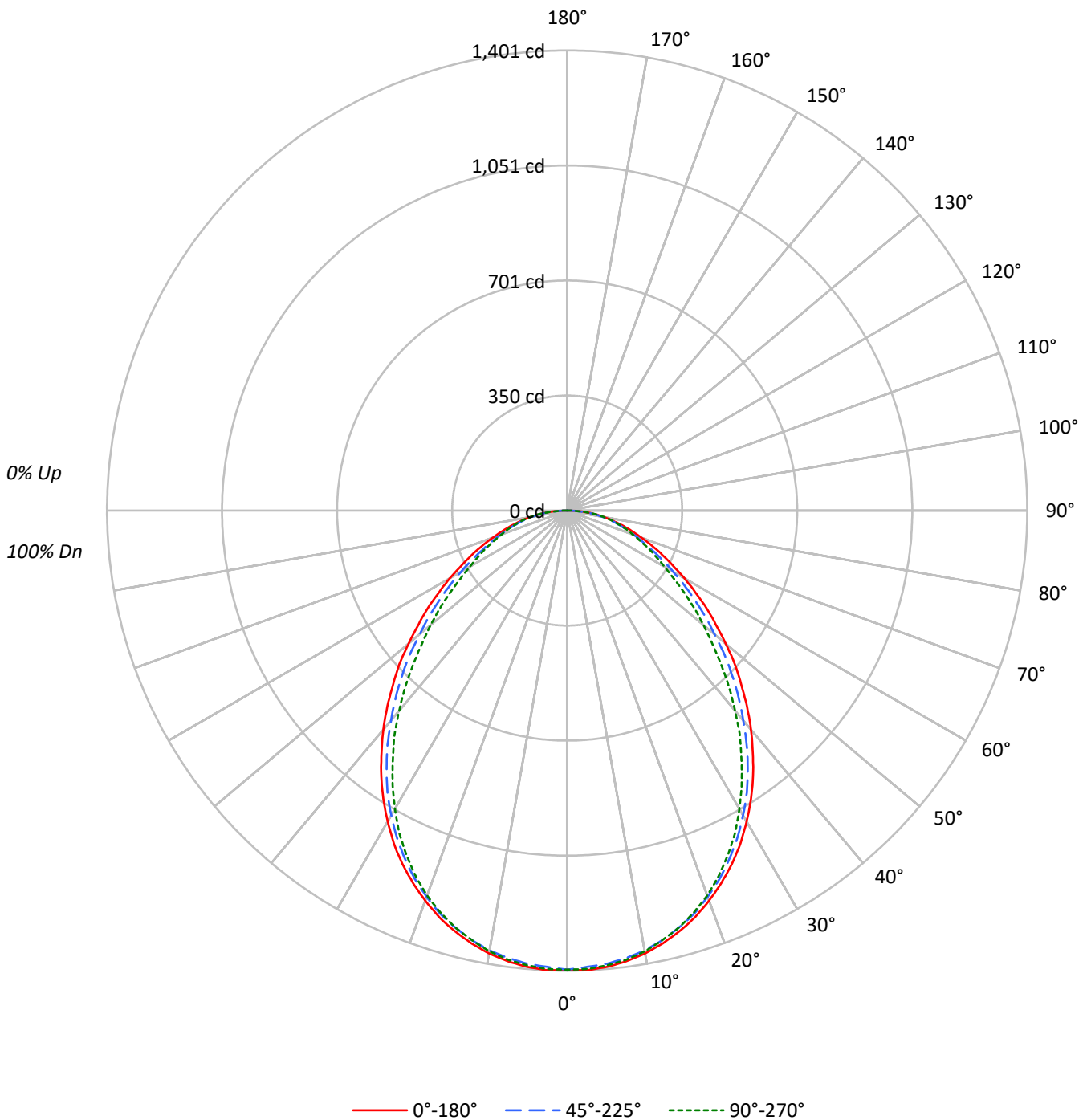
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47					47			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	50	44	40	38					38			
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3762	3762	3762
5°	3766	3741	3755
10°	3741	3716	3724
15°	3692	3662	3662
20°	3619	3584	3571
25°	3524	3472	3436
30°	3395	3329	3259
35°	3243	3149	3040
40°	3059	2931	2794
45°	2852	2705	2522
50°	2636	2453	2269
55°	2432	2223	2041
60°	2218	2009	1843
65°	2039	1824	1741
70°	1892	1706	1672
75°	1806	1657	1687
80°	1770	1669	1757
85°	1819	1639	1751



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	4.2
10°-20°	371.2	11.8
20°-30°	538.5	17.2
30°-40°	597.9	19.1
40°-50°	547.0	17.4
50°-60°	426.2	13.6
60°-70°	291.1	9.3
70°-80°	173.9	5.5
80°-90°	60.5	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°	1041.7	33.2
0°-40°	1639.6	52.2
0°-60°	2612.8	83.3
0°-90°	3138.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3138.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1398	1398	1398	1398	1398	
5°	1394	1391	1385	1392	1390	132
15°	1325	1322	1315	1320	1315	373
25°	1187	1182	1170	1166	1157	546
35°	987	979	958	938	925	616
45°	750	740	711	678	663	579
55°	518	503	474	446	435	463
65°	320	308	286	274	274	319
75°	174	167	159	162	162	184
85°	59	56	53	58	57	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1397.9	1397.9	1397.9	1397.9	1397.9
2.5°	1400.7	1397.1	1390.7	1397.9	1397.1
5°	1394.3	1391.4	1384.9	1392.1	1390.0
7.5°	1384.2	1381.3	1374.2	1382.1	1379.2
10°	1369.1	1365.5	1359.8	1365.5	1362.7
12.5°	1349.0	1345.4	1339.7	1344.7	1339.7
15°	1325.3	1321.8	1314.6	1319.6	1314.6
17.5°	1297.3	1292.3	1286.6	1287.3	1283.0
20°	1263.6	1258.6	1251.4	1251.4	1247.1
22.5°	1227.0	1222.0	1213.3	1210.5	1204.7
25°	1186.8	1181.8	1169.5	1166.0	1157.3
27.5°	1143.0	1135.1	1122.9	1115.0	1106.4
30°	1092.7	1086.3	1071.2	1059.7	1048.9
32.5°	1041.8	1035.3	1018.1	1000.8	989.3
35°	987.2	978.6	958.5	938.4	925.4
37.5°	928.3	921.1	898.2	873.8	863.7
40°	870.9	861.5	834.3	809.1	795.5
42.5°	810.6	800.5	773.2	744.5	729.4
45°	749.5	739.5	710.8	677.7	662.7
47.5°	692.8	679.9	649.7	616.7	598.8
50°	629.6	618.9	585.9	554.3	542.1
52.5°	570.8	560.7	529.9	499.0	487.5
55°	518.4	502.6	473.9	445.8	435.1
57.5°	462.4	449.4	422.2	395.6	384.8
60°	412.1	402.1	373.3	350.4	342.5
62.5°	362.6	354.7	328.1	310.9	305.8
65°	320.2	308.0	286.5	273.5	273.5
67.5°	280.0	267.8	249.1	244.1	239.8
70°	240.5	231.2	216.8	212.5	212.5
72.5°	205.3	197.4	187.4	186.0	188.8
75°	173.7	166.6	159.4	162.3	162.3
77.5°	142.2	137.1	134.3	135.7	138.6
80°	114.2	110.6	107.7	111.3	113.4
82.5°	87.6	84.0	81.8	86.9	86.2
85°	58.9	56.0	53.1	58.2	56.7
87.5°	29.4	28.0	23.0	25.8	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)